UNIVERSITY OF MADRAS

NINETY-EIGHTH ANNUAL REPORT FOR 1954

January 1955

I. INTRODUCTION

1. The Syndicate presents to the Senate under Section 20 of the Madras University Act of 1923, as amended in 1929, the report of the working and progress of the University for the year ending 31st December 1954.

2. The varied activities of the University are detailed under the appropriate headings, but special mention may be made of the following :

(i) The establishment of the Sri Venkateswara University may be looked upon as another landmark in the history of this University and in the development of higher educational facilities in South India. On the enactment of the Sri Venkateswara University Act by the Andhra State, the Colleges within the Rayalaseema area ceased to be affiliated to this University; but, under arrangements made with the Andhra University and Sri Venkateswara University, this University will be conducting examinations for the benefit of candidates who commenced their studies in the Colleges concerned as alumni of this University and in accordance with the syllabus of this University. At the inauguration of the

Sri Venkateswara University on the 2nd September 1954, the Vice-Chancellor represented the Madras University and conveyed its cordial greetings and best wishes to this latest University.

It is also a pleasing feature to note that one of the oldest and most respected members of the Syndicate of this University, Sri S. Govindarajulu Nayudu, who has taken a very active part in all the affairs connected with the Madras University, has been chosen as the first Vice-Chancellor of the Sri Venkateswara University.

(ii) The University is glad to announce that the Government of India in the Ministry of Agriculture accepted the proposal for setting up a Department of Agro-Economic Research at this University. This Unit was established immediately after sanction of the scheme, and investigations have already started. It is the expectation of the University that this Unit will continue as a permanent adjunct to the Department of Indian Economics. Another Unit of farm management studies which is closely associated with research on Agro-Economics has also been established in conjunction with this section and work on these studies is also in progress in the Department. This unit is working in close co-operation with the Department of Agriculture, which has been pleased to lend the services of some officers and field staff.

(iii) Another important scheme of research which has been undertaken in the same Department is the Socio-Economic Survey of Madras City. This scheme owes its origin to a grant made available by the Planning Commission of the Government of India. The scheme has been in operation since October. The Survey is bound to produce valuable information and data.

(iv) The term of office of Lt. Col. Sir A. Lakshmanaswami Mudaliar as Vice-Chancellor of the

University expired on the 20th August 1954, and in accordance with the Statutes a Sub-Committee was constituted for submitting a panel of names to the Chancellor. Lt. Col. Sir A. Lakshmanaswami Mudaliar was unanimously nominated by the Senate for the fifth term in succession for the office of the Vice-Chancellor of the University.

(v) Special mention may be made here of the recommendations of the Secondary Education Commission. A Special Committee, which went into the recommendations of the Commission affecting University stdies, while accedting the recommendations, placed concrete proposals before the Syndicate, which in turn placed them before the Academic Council. The Academic Council and later the Senate accepted these recommendations, which in the main, would, it is anticipated, thoroughly change the character and tone of education in the University. Detailed proposals are now being considered by the Board of Studies concerned and it is the hope of the Syndicate that by the beginning of the Academic year 1956, the Colleges and the University will have implemented these recommendations.

(vi) Another important event is the introduction of Post-graduate courses in Engineering leading to the Degree of Master of Science in Engineering in the specialised Branches of (1) Public Health Engineering (2) Advanced Hydraulics, Dam Construction and Irrigation, (3) Structural Engineering, and (4) Electrical Machine Design. These courses are likely to be started ere long in one or other of the Engineering Colleges affiliated to this University.

Among other courses of study introduced during the year, mention may be made of the Diploma Courses in Venereology and in Radiology which are conducted at the Madras Medical College.

(vii) The Syndicate has had under consideration the question of submitting the next quinquennial report to Government in accordance with the provisions of Section 53 of the Act. It decided that it would be most appropriate, in view of the vast developments that have taken place in University education in this State and the large number of Colleges that have sprung up, that the next quinquennial report to Government be submitted after an inspection of the Colleges by a General Inspection Commission. A questionnaire which was drafted by the Syndicate has already been circulated to the Colleges and on receipt of replies, the Syndicate proposes to appoint a Commission to inspect the Colleges and to make its report thereon.

II. PERSONNEL

3. **Chancellor :** Shri Sri Prakasa, B.A., LL.B. (Cantab.), Barrister-at-Law, Governor of Madras, continued as Chancellor of the University.

4. **Pro-Chancellor:** Sri C. Subramaniam, B.A., B.L., M.L.A., Minister for Education, Madras State, continued as Pro-Chancellor of the University during the year.

5. **Vice-Chancellor :** Consequent on the unanimous nomination of Lt. Col. Sir A. Lakshmanaswami Mudaliar and his appointment by the Chancellor as Vice-Chancellor for the fifth term there was no change in the Office of the Vice-Chancellor. Lt. Col. Sir A. Lakshmanaswami Mudaliar was deputed to attend the meeting of the World Health Organization at Geneva as a member of the Delegation of the Government of India from 1st May to 22nd May 1954, and again as member of the Indian Delegation to the Fifth Conference of the UNESCO from 27th October 1954 to 27th December 1954. At this session of the UNESCO, he was elected Chairman of the Executive of the UNESCO, an honour

both to the nation and to the University. During his absence, as on the previous occasions, a Committee of Conveners of Syndicate Committees with the Rev. L.D. Murphy, S.J., as Convener, performed the duties of the Vice-Chancellor.

6. **Registrar :** Sri R. Ravi Varma continued as Registrar, till 16th June 1954, when he went on leave. He rejoined duty on 2nd December 1954. During his absence on leave, Dr. D. Sivasubrahmania Mudaliar, Deputy Registrar of the University acted as Registrar.

7. **Deputy Registrar :** Sri D. Sivasubrahmania Mudaliar, M.R.C.S., L.R.C.P., continued as Deputy Registrar till 16th June 1954, when he was appointed Acting Registrar (*vide* supra).

8. **Assistant Registrar :** Sri D. Narayana Ayyar continued as Assistant Registrar till 16th April 1954. He availed of leave for three months and retired on 16th July after putting in a continuous service of about 35 years. The post is now held in abeyance. He has, however, been appointed as Special Officer on contract for a period of one year for the organization of records and the preparation of the office manual.

III. UNIVERSITY AUTHORITIES

9. **The Senate :** The Senate met twice during the year, the annual meeting was held on the 31st March 1954 and the ordinary meeting on the 14th October 1954. The average attendance at these meetings was 67%.

10. Two convocations were held during the year. The main Convocation at which the Chancellor of the University presided was held on the 18th August 1954 with a supplemental session on the succeeding day. The Supplemental Convocation was held on the 17th February. A special meeting of the Senate was held on the 14th October 1954 to confer diplomas and titles.

11. **Syndicate:** There were nine ordinary meetings and two special meetings of the Syndicate during the year. Certain items were also considered by the Syndicate in circulation as usual.

12. **The Academic Council:** The Academic Council met on 19th February 1954 and 3rd September 1954, the average attendance at meetings being 87%.

13. **The Standing Committee of the Academic Council:** The Standing Committee of the Academic Council met four times during the year on 22nd January 1954, 12th March 1954, 27th April 1954 and 6th August 1954. Certain items of business were also transacted in circulation.

14. **Boards of Studies:** In connection with the consideration of the report of the Secondary Education Commission and the resolutions thereon of the Senate and of the Academic Council, it was felt necessary to postpone the normal meetings of the Boards of Studies until after the Senate and the Academic Council had considered the recommendations of the Secondary Education Commission. All the Boards of Studies, therefore, met later during the year. The term of Office of the Boards expired on 30th December 1954. All the Boards were therefore reconstituted during the year. The newly constituted Boards have also elected their respective Chairmen.

15. **Faculties:** New members of the Academic Council were assigned to the various Faculties by the Academic Council. The following were elected Presidents of the Faculties during the year :

Faculty of Arts: The Rev. A. J. Boyd, M.A., D.D.

Faculty of Law: Sri C. Kunhiraman, B.A., B.L., Barrister-at-Law.

Faculty of Agriculture : Sri B. M. Lakshmipathi Mudaliar, B.E., M.E., M.R.A.S.E.

Faculty of Veterinary Science : Sri Bertie A. D'Souza, G.M.V.C., B.V.Sc.

Faculty of Technology : Sri B. M. Das, M.A.,M.Sc.

Faculty of Engineering : Sri G. R. Damodaran, B.Sc. (Elec.), B.Sc. (Mech.) (Durham), M.I.E.E. (Lond.), A.M.I.E.E., M.P.

16. The Syndicate reports with regret the demise of the following persons who were former members of one or other of the University authorities :

Dr. I. M. Azizuddin.
Sri T. K. Chidambaranatha Mudaliar.
Sri S. Ellappa Chettiar.
Sri A. Gopala Menon.
Sri N. Halasyam.
The Rev. Joseph A. B. Coelho.
Sri K. K. Pocker.
Dr. A. Ramakrishna Reddi.
Sri K. R. Ramaswami Ayyangar.
Sri P. Sankaran Nambiar.
Sri R. Swaminathan.
Sri Kulapathi R. Swaminatha Ayyar.
Sri C. Tadulinga Mudaliar.

Appropriate references were made to the demise of these gentlemen at the meetings of the Senate and the Academic Council.

IV. LEGISLATION

(i) Statutes

17. The following additions to, and alterations in, the Statutes were adopted by the Senate during the year : These have also received the assent of the Chancellor.

(i) Provision for the creation of the permanent post of Deputy Registrar of the University

and specifying the conditions of service of the Assistant Registrar and the Deputy Registrar.

(*Volume I, University Calendar, Statutes* 12 *and* 14, *Chapter VII*)

(ii) Simplification of the procedure at Convocations : At the suggestion of the Chancellor, the Syndicate accepted the amendments regarding simplification of the procedure to be adopted at Convocations, the chief features of which are that the address of the Convocation Orator would be delivered before the candidates are presented to the Chancellor.

(*Volume I, University Calendar*, 1953-54, *Statutes* 8, 15, 16, 17, 18, 19, 20 *and* 23, *Chapter XXI*)

(iii) In regard to training in Navigation or Marine Engineering, the date for submission of applications and also the age limit for eligibility were altered to fit in with the rules for admission to the Training Ship 'Dufferin' prescribed by the Government of India.

(ii) Ordinances

18. The following alterations in, and additions to the Ordinances which were made by the Syndicate were submitted to the Chancellor and the Senate under Section 32 (2) of the Act :—

(*Volume II, University Calendar*, 1951-52)

(1) *Chapter XXXVII*: Amendment of Ordinances 5 I (1) (25) and 5 II 17 (*e*) fixing fees for undergoing the course of lectures in

Constitutional and International Law for Branch II of the M.L. Degree Examination ; and deletion of the provision for the issue of detailed statement of marks to candidates at the University examinations.

(2) *Chapter XXXVIII*: Amendment of the Ordinance governing the dates for payment of examination fees, etc., for B.Sc. (Ag.) (Old Regulations)—Second examination and the examination for the Diploma in Horticulture.

(iii) Regulations

19. Amendments to Regulations which were adopted by the Academic Council during the year were placed before the Senate under Section 33 of the Act. These are the following :—

(*Volume II, University Calendar*, 1951-52)

(1) Alterations to the Regulations in Chapters XLII, XLIII and XLIX—providing for exemption in parts of the Intermediate, B.A. or B.Sc. Degree Examinations to holders of the Senior Air Certificates II and III of the Air Wing of the N.C.C. on a par with the Certificates B and C of the Army Wing of the N.C.C.

(2) Alterations to the Regulations in Chapter L—B.Sc. (Hons.) Degree Examination—revising the course of studies and scheme of examination in Branch II—Physics.

(3) Alterations to the Regulations in Chapter LI—M.Sc. Degree Examination—revising the scheme of examination in Physics.

(*Volume III, University Calendar*, 1951-52)

(4) Alterations to the Regulations in Chapter LXI —M.B.B.S. Degree Examination (Revised) changing the period of study for the Second M.B.B.S. Degree examination from eighteen months to four terms and making certain minor amendments.

(5) Alterations to the Regulations in Chapters LXIII and LXIV—M.D. and M.S. Degree examinations—reducing the period of active practice in the case of M.B.B.S. Degree holders of other Universities seeking admission to the M.D. and M.S. Degree courses, from five to three years and increasing the period of the course under Branch I—Medicine for M.D. and Branch I—General Surgery for M.S. from one to two years ; and providing for the submission of three copies of the case records or thesis or published work or consolidated report instead of case records.

(6) Alterations to the Regulations in Chapter LXV—Post-graduate Diplomas in Medicine and Surgery—revising the courses of study for the Diploma in Radiology.

(7) Alterations to the Regulations in Chapter LXVII—B. Pharm. Degree Examination—permitting candidates who have failed in Part I of the Final Examination to continue the course and take the examination in the failed subject or subjects on a subsequent occasion.

(8) Regulations relating to the Post-graduate Degree in Engineering (M.Sc. in Engineering) (to be included as a new Chapter) —providing for the Branches of study in (i) Public Health Engineering, (ii) Advanced

Hydraulics, Dam Construction and Irrigation, (iii) Structural Engineering and (iv) Electrical Machine Design.

(9) Alterations to the Regulations in Chapter LXXII—B.T. Degree Examination permitting candidates who had passed the practical part of the L.T. or B.T. Degree Examination under the Old Regulations to complete the B.T. Degree Examination by passing only in the Theory Part under the New Regulations.

(10) Additions to the Regulations in Chapter LXXIII—M.Ed. Degree Examination—making provision for a candidate whose thesis has failed to reach the prescribed standard to submit a thesis on a different subject without any additional attendance but under guidance.

(11) Alterations to the Regulations in Chapter LXXIV—B.Sc. (Ag.) Degree Examination —fixing the minimum marks for Practical Farm Management and changing the date of the examinations under the Old Regulations.

(12) Alterations to the Regulations in Chapter LXXVI—B.Sc. Degree in Technology—making provision for admission to the B.Sc. (Tech.) Degree Course only such of those as have passed the B.A., B.Sc. or B.Sc. (Hons.) offering Physics as Main and Chemistry as Subsidiary subject.

V. CONSTITUENT AND AFFILIATED INSTITUTIONS

20. During the year under report three second grade colleges and one professional college, viz., Mahajana College, Erode, Alagappa College for Women, Karaikudi,

Auxilium College, Katpadi and Madurai Medical College, Madurai were opened. Four second grade colleges, viz., Agurchand Manmull Jain College, Madras, Sir Theagaraya College, Madras, Providence Women's College, Kozhikode and Sacred Heart College, Tirupattur (N.A. Dist.), were raised to the first grade. The Madras Medical College was granted further affiliation in the Diploma courses in Venereology and Radiology.

21. Consequent on the establishment of Sri Venkateswara University at Tirupati, by an Act of Legislature of the Andhra State, the following colleges which enjoyed affiliation to the University of Madras became affiliated to the Andhra University from the commencement of the academic year 1954-55 :

1. Government Arts College, Anantapur.
2. Government Arts College, Cuddapah.
3. Osmania College, Kurnool.
4. Besant Theosophical College, Madanapalle.
5. Sri Venkateswara College (Men's College), Tirupati.
6. Sri Venkateswara Women's College, Tirupati.
7. Government College of Engineering, Anantapur.
8. Government Training College, Kurnool.
9. Islamiah Arabic College, Kurnool.
10. Madrasai—Muhamadiya Arabic College, Rayadrug.
11. Sri Venkateswara College for Oriental Learning, Tirupati.

The Veerasaiva College, Bellary was affiliated to the University of Mysore on the transfer of Bellary to the State of Mysore. However, the Senior Intermediate class in the College will continue to be under the jurisdiction of the University of Madras till and for the Academic year 1954-55, after which this College will cease to be affiliated to this University.

22. The number of colleges—constituent, affiliated and oriental—at the end of the year arranged according to Faculties is as follows :

Faculty.	*Constituent Colleges.*	*Affiliated Colleges.*
Arts and Science—		
Second Grade Colleges teaching upto Intermediate course.	1	12
First Grade College (Intermediate, B.A. and/or B.Sc. courses) ...	6	38
Honours Colleges (Intermediate, B.A. and/or B.Sc. Pass and Honours courses) ...	4	2
Honours Colleges (B.A. and B.Sc. Pass and Honours) ...	1	...
Law—		
F.L. and B.L. ...	1	...
Medicine—		
M.B.B.S. ...	...	1
M.B.B.S., M.D., M.S. ...	1	1
M.B.B.S., B.S.Sc., B.Pharm., B.D.S., M.D., M.S. and Diploma course ...	1	...
* B.Sc. (Nursing) ...	...	1
Engineering—		
F.E. and B.E. ...	1	3

* This course is provided in the Christian Medical College, Vellore.

Faculty.		*Constituent Colleges.*	*Affiliated Colleges.*
Teaching—			
B.T. and M.Ed.**	...	4	...
B.T.	...	...	6
Agriculture—			
B.Sc. (Ag.)	...	...	1
Veterinary Science—			
B.V.Sc.	...	1	...
Technology—			
B.Sc. (Tech.)	...	1	...
Commerce—			
† B.Com. (Pass & Honours)	...	2	...
† B.Com. (Pass) only	...	2	18
Oriental Learning—			
† B.O.L. (Hons.)	...	1	...
† B.O.L.	...	...	1

Oriental Colleges.

Siromani and Vidvan	...	9
Siromani only	...	4
Vidvan only	...	5
Sangita Siromani	...	1
Munshi-i-Fazil and/or Afzal-ul-Ulama or Adib-i-Fazil	...	4

23. Details about recognition, affiliation or approval in various courses of studies that were granted during the year will be found in **Appendix A.**

24. Applications have been received for the opening of new Colleges and for additional or fresh recognition, affiliation or approval with a view to opening classes from the next academic year 1955-56. These applications total 37 and are under consideration. Colleges which were granted provisional affiliation till the end of the academic year 1954-55 have also applied for exten-

** The M. Ed. Degree course is conducted with University co-operation and on an Inter-Collegiate basis by the four Constituent Training Colleges.

† These courses are provided in the Colleges already included under Arts and Science.

sion of the provisional affiliation or for permanent affiliation from the next academic year.

25. **Admission to Colleges :** Pressure for admission to the University courses has been heavy, particularly in the City Colleges. To a large extent, the new colleges that have sprung up and the additional numbers that have been sanctioned in view of the improved facilities in the Colleges met this demand. The Syndicate noticed that while the pressure for admission in certain colleges was great, there were institutions in the mofussil having places vacant offering the same courses of study and the necessary facilities. A circular was, therefore, sent by the University to all the institutions to notify the University about the seats that remained vacant in the various branches of study. A communique was also issued that information about availability of seats in colleges could be had at the Office of the University. This innovation not only helped many a candidate to secure admission but also relieved the pressure on institutions in general. The Syndicate further considered the position with reference to a few hard cases of candidates from certain schools who suffered from for want of facilities for the study of certain languages and also from the delay consequent on the late publication of the S.S.L.C. results and resolved to permit the Colleges to admit not more than five of these students over and above the total sanctioned strength of each institution. Many of the Colleges availed themselves of this concession which was granted as a special case for the current year. The number of students reported to have been admitted in July-August to the Junior Intermediate class was 16,251, the corresponding numbers in the preceding five years being 17,206, 16,502, 15,260, 12,840 and 12,650. It may be mentioned incidentally that the diminution in educational facilities in the University consequent on the disaffiliation of the Colleges in the Rayalaseema Districts has been more than compensated

for by the increased facilities available in the University area. According to the returns received in December 1954, the total number of students undergoing courses in Arts and Science, Professional and other studies is as follows :—

Arts and Science		...	46,085
Law		...	1,274
Medicine (excluding Post-graduate Degree and Diploma courses)		...	2,168
Engineering		...	1,433
Agriculture (including Diploma in Horticulture)		...	281
Veterinary Science		...	272
Teaching :		...	849
B.T.	831		
M.Ed.	18		
Technology		...	87
Nursing		...	52
M.Sc. (by examination)		...	42
M.L. classes		...	22
Diploma classes (only those conducted in the University)		...	303
Diploma in Social Service		...	41
Oriental Titles		...	1,407

26. **Women Students :** The number of women students studying in Arts and Science Colleges rose to 7,077 and in Professional institutions to 948 the corresponding numbers in the preceding year being 6,581 and 834 respectively. The strength in Women's Colleges showed a considerable increase and was 5,801 in Arts and Science and 240 in Professional courses.

27. **Hostels :** Of the total number of about 51,821 on the rolls of this University in Arts, Science and Professional colleges, 18,244 were reported to be residing in

College hostels or approved hostels, about 1,598 in lodgings approved by college authorities and the rest with their parents or guardians.

It was mentioned in the last report that the Madras University Hostel Construction Co-operative Society was inaugurated on the 27th November 1953. Thirty institutions have become members of the Society. Though it was inaugurated in November 1953, it started functioning from this year. The Board of Directors have recommended loans for construction of hostels to six institutions to the extent of Rs. 5,30,000. The Government of Madras have been pleased to permit the member-institutions of the Society to mortgage the land and the hostel building of the College to the Society. The Government have also been pleased to sanction payment of grant for construction of hostels to colleges which are members of the Society through the Society and also to accept for purposes of sanctioning grant the certificate by the Engineer of the Society with regard to scrutiny and approval of plans and estimates and the report of the Legal Adviser of the Society with regard to the title of the property. These orders of the Government will greatly facilitate the quick disposal of all applications and speedy construction of the hostels. The Board of Directors have arranged in the order of priority the further applications that have been received for loans.

In this connection, the University has made an application to the University Grants Commission for the payment of an interest free loan of Rs. 10 lakhs for construction of hostels. Details with regard to the scheme of construction of hostels and the organization through which the loans will be distributed have already been furnished to the University Grants Commission and it is expected that ere long this loan will be forthcoming and the need for additional hostel accommodation in all institutions will be fully met.

Hostels for University research students, one for men and another for women students have been much needed for some years. With the expansion of the facilities for Post-graduate study and research it has now become an urgent necessity. With a number of foreign scholars coming under the scheme of Cultural Awards, the University was faced with the problem of finding suitable accommodation for these scholars as well. On receipt of a sum of Rs. 25,000 from the Statham Memorial Fund, the University had proposed to the Government the construction of a women's hostel to accommodate women research students and Post-graduate women students working in the Departments in the campus of the Lady Willingdon Training College so that facilities by way of supervisory staff and a warden could be found easily in the campus. This proposal has not received the approval of the Government. The Vice-Chancellor recently availed himself of an opportunity of meeting the Minister of Education of the Madras State with the Director of Public Instruction to discuss this subject. It was suggested at the meeting that a large hostel for women students of the Presidency College might be constructed in a suitable place and that one wing of the hostel might be allotted to the University to accommodate its women research students up to a maximum of thirty, the University undertaking to pay out of its own funds and the amount received from the Statham Memorial Fund, a sum of Rs. 75,000. This proposal was accepted by the Minister, who requested the Vice-Chancellor and the Director of Public Instruction to inspect the Lady Willingdon Training College, Madras, and the Government House Estate with a view to selecting a suitable site for the hostel. The Committee went into the question and recommended to the Government that the site in the Government House Estate adjoining Adams Road would be most suitable for the construction of such a hostel. The Syndicate reports that the Government have in their memorandum

No. 46523-E4-53-B, Education, dated 24th November 1954, approved the location of the hostel for women students of the Presidency College and of the University in a square piece of land measuring about 4 acres at the north-eastern extremity of the Government House Estate, Mount Road, Madras. The Government have asked the Director of Public Instruction in the same memorandum to submit detailed proposals with plans and estimates in consultation with the Chief Engineer so that the same might be incorporated after scrutiny, for consideration as a Part II Scheme in the budget for 1956-57. When this scheme goes through, the University will have suitable boarding and lodging facilities for its women research students. For the men research students, the University Grants Commission has been approached for a loan for the construction of a hostel. If and when funds become available, action will be taken for its construction.

28. **Service Conditions of Teachers in Colleges :** It was reported on the last occasion that revised scales of salaries had been prescribed by the Syndicate taking into consideration all relevant factors and that Managements had been circularized and requested to adopt the scales. It was also reported that many of the Managements had accepted the scales during the preceding year. The Syndicate also formulated a scheme of weightage in regard to fixing the salaries of individual teachers into the new scales. From a scrutiny of the returns received during the year, it is gratifying to note that most of the Colleges have adopted the scales of salaries. These returns have also been scrutinized with reference to the scheme of weightage. The attention of the managements have been invited to individual cases where weightage as recommended by the Syndicate appears not to have been effected. The Managements have accepted these suggestions and wherever there is need for further clarification or where the scales have not

been given effect to, the matter is under further correspondence. The Syndicate notes with pleasure that Managements have whole heartedly co-operated with the Syndicate in the introduction of the new scales and in the scheme of fixing the teachers in such scales.

VI. COURSES OF STUDY AND EXAMINATIONS

29. The amendments to the Regulations with regard to the various courses adopted by the Academic Council have already been reported. Mention may, however, be made of the following :—

(1) **M.Sc.:** The scheme of examination for the M.Sc. Degree in Physics was revised. A course for the M.Sc. Degree by examination in Botany with Morphology of Angiosperms was started during the year with the co-operation of the Presidency College, Madras. A course for the M.Sc. Degree in Geology was also opened in the University Department of Geology and Geophysics.

(2) Consequent on the introduction of the Air Wing of the N.C.C., Regulations providing exemption in Parts of the Intermediate, B.A. and B.Sc. Degree Examinations were amended to provide for the holders of the Senior Air Certificates II and III of the Air Wing to be placed on a par with the cadets holding the Certificates B and C of the Army Wing of the N.C.C.

(3) Consequent on the up-grading of the Government Hospital for Women and Children, Egmore, Madras, and its recognition as an All-India training centre in the speciality, candidates from different parts of the

country were selected and sent up for training. On a representation from the Director-General of Health Services, Government of India, New Delhi, that such candidates may be placed on a par with candidates from Madras, amendments were made to the Regulations for the M. D. and M.S. Degree courses reducing the period of active practice in the case of M.B.B.S. Degree holders of other Universities seeking admission to the M.D. and M.S. Degree courses from five to three years and increasing the period of the course under Branch I Medicine and Branch I General Surgery for M. D. and M. S. respectively from one to two years. Provision was also made in the amendments for the submission of three copies of case records or thesis or published work or consolidated report instead of case records.

(4) After consultation with the All India Council of Post-graduate Medical Education, the Post-graduate course in Radiology was also revised.

30. **Attendance and Attendance Certificates:** During the year, the Syndicate formulated definite rules regarding the minimum number of working days that should be observed by Colleges and fixed for the Junior classes 150 days and for the Senior classes 140 days for each academic year with the usual concession for Colleges having the N.C.C. units.

Attendance certificates prescribed for some of the examinations needed revision consequent on the Regulations relating to the courses having undergone revision from time to time. The attendance certificates, were, therefore, revised during the year.

31. **Recognition of Diplomas:** The question of recognition of diplomas of a high standard awarded by non-University institutions for purposes of admission to University courses of study have been under the consideration of the Inter-University Board. A reference was received from the Ministry of Education in the Government of India asking whether the University would be prepared to recognize such diplomas. The Syndicate decided that it would not be possible to grant such recognition to diplomas granted by non-University institutions.

32. **Post-graduate Council:** The term of office of the Council of Post-graduate Medical Education of this University having expired by December 1953, the Council was reconstituted for a period of three years from January 1954, with the Vice-Chancellor as Convener and the Deans of the two Medical Colleges at Madras, the Principal of the Christian Medical College at Vellore, the Director of Medical Services and the Superintendents of the Government Hospital for Women and Children and the Ophthalmic Hospital and Dr. P. V. Cherian as members.

33. A report was received from the Public Service Commission regarding the deterioration of standards as reflected in the U.P.S.C. Examinations together with extracts of reports of Examiners. The matter was referred to Principals of Colleges for their remarks and for suggesting remedial measures for adoption with a view to improving the standards. Replies of the Principals have been referred to a Special Committee whose report will be considered by the Syndicate in due course.

34. **S.S.L.C. and A.I.H.S. Examinations :—** The term of office of the Board of Secondary Education having expired, the Board was reconstituted by the Government of Madras. The following were nominated

Representatives of the University on the reconstituted Board :—

1. The Rev. L. D. Murphy, S.J., M.A.
2. Sri R. Krishnamurti, M.A.
3. Sri Alexander Gnanamuttu, M.A., M.L.C.
4. Sri K. M. Sundaram, B.A., L.T.
5. Sri S. Natarajan, B.A., L.T.
6. The Rev. D. Thambuswami, M.A., L.T.

The Board for Anglo-Indian School-Leaving Certificates was likewise reconstituted on the 1st April 1954. The previous nominees of this University were re-nominated for a further term.

35. The number of candidates who appeared for the S.S.L.C. Examinations in March and October 1954 from this University area and the number declared eligible for admission to University courses of study were as follows :—

	March 1954	*October* 1954
Candidates taking subjects qualifying for eligibility ...	59,303	14,438
Candidates declared eligible ...	31,340	4,135

In the Anglo-Indian High School Examination held in November, 562 candidates were declared eligible.

36. **Eligible List in respect of Sanskrit Entrance Test :** The eligible list for the Sanskrit Entrance Test in respect of candidates who appeared from this University area was published by the University. The number of students declared eligible was 72 for the Siromani course and 70 for the Vidvan course.

37. **Examinations :** Various examinations of the University were held at the several centres fixed by the Syndicate and notified in the Gazette. The statement giving the number of candidates who appeared for and passed at the various examinations, titles, certificates and diplomas during the year 1954, is given in **Appendix B.**

38. **Research Degrees :** The increase in the number of persons preparing for the Post-graduate Degrees has been maintained. The number of persons who submitted theses for Research Degrees and the number declared qualified for the award during 1953-54 were as follows :—

	Number of candidates who submitted theses.	*Number declared qualified for the degree.*
M.Litt. ...	8	4 (The result of one candidate is pending).
M.Sc. ...	36	21 (The results of 10 candidates are pending).
Ph.D. ...	27	17 (Includes the result of one candidate who submitted thesis for the D.Sc. Degree but was declared qualified for the Ph.D.) (The results of 4 candidates are pending).
D.Sc. ...	1	...

Particulars regarding theses approved during the year will be found in **Appendix C.**

39. The number of candidates registered for various research degrees was as follows :—

M.Litt. 27 ; Ph.D. 35 ; M.Sc. 62.

40. **Exemption from attendance certificates:—** Applications for exemption from the production of attendance certificates prescribed for the various examinations were disposed of according to the rules. The following is the classified list of exemptions granted :—

	College.	*Private.*	*Bonafide Teachers.*
Matriculation ...	...	1,069	...
Intermediate ...	146	...	463
B.A. ...	40	...	190
B.A. (Hons.) ...	4	...	...
M.A. ...	1	...	66
B.Sc. ...	12	...	...
B.Com. ...	9	...	...
B.E. ...	8	...	...
B.L. ...	39	...	...
B.T. ...	1	...	...
B.V.Sc. ...	2	...	...
B.Sc. (Ag.) ...	3	...	...
B.Sc. (Tech.) ...	1	...	...
Entrance Test (O.T. and Intermediate Group D) ...	...	807	...
Oriental Titles ...	1	279	332
B.O.L. ...	...	...	36
B.O.L. (Hons.) ...	...	...	2
Diploma in Statistics ...	1	...	...
Diploma in German ...	1	...	...

41. **Recognition of Examinations of other Bodies and Universities** :—3,784 applications for recognition of examinations of other Bodies and Universities for purposes of continuing higher studies at this University were considered and disposed of during the year.

VII. CONVOCATIONS

42. During the year two Convocations, one with a supplementary session, were held for conferment of degrees, on the 17th February and on the 18th and 19th August 1954. At the main Convocation on the 18th August 1954, Shri Sri Prakasa, Chancellor of the University presided. Dr. Rm. Alagappa Chettiar delivered the Convocation Address. At the supplementary session on the 19th August 1954, the Vice-Chancellor presided. At the supplemental Convocation held on the 17th February 1954, the Vice-Chancellor presided.

43. The revised procedure that was suggested for the Convocation by the Chancellor was adopted for the first time in August 1954. The Convocation orator's address preceded the conferment of the degrees.

The number of persons on whom Degrees were conferred at the three Convocations was as follows :—

Degrees		*Men*	*Women*	*Total*
M.L.	...	3	...	3
B.L.	...	380	9	389
M.D.	...	2	2	4
M.S.	...	4	...	4
B.S.Sc.	...	2	...	2
M.B.B.S.	...	230	96	326
B.Pharm.	...	6	...	6
B.Sc. (Pharm.)	...	1	...	1

Degrees		*Men*	*Women*	*Total*
B.E.	...	280	3	283
M.Sc.	...	21	4	25
M.Sc. (by Exam.)	...	11	1	12
B.Sc. (Hons.)	...	98	12	110
B.Sc.	...	1,090	122	1,212
B.V.Sc.	...	63	3	66
B.Sc. (Tech.)	...	30	...	30
B.Sc. (Ag.)	...	40	...	40
B.Com. (Hons.)	...	33	...	33
B.Com.	...	603	...	603
M.Ed.	...	6	4	10
B.T.	...	536	141	677
L.T.	...	4	4	8
M.Litt.	...	4	4	8
Ph.D.	...	11	...	11
M.A.	...	332	85	417
B.A. (Hons.)	...	364	55	419
B.A.	...	1,936	566	2,502
B.A. (War)	...	1	...	1
B.O.L. (Hons.)	...	7	...	7
B.O.L.	...	17	4	21
Total	...	6,115	1,115	7,230

44. At the special Senate meeting held on the 14th October 1954, Titles or Diplomas were awarded to 551 candidates.

VIII. TEACHERS AND RESEARCH DEPARTMENTS

45. The Syndicate reports with regret the sudden and untimely demise of Dr. M. A. Govinda Rau, Director, Alagappa Chettiar College of Technology. The Syndicate wishes to take this opportunity to record its deep appreciation of the pioneering work that was done by Dr. Govinda Rau in organising the College from its inception.

46. Dr. Muhammad Hussain Nainar, Professor in the Department of Arabic, Persian and Urdu, who was granted an extension of service for a period of one year did not avail himself of the extension, as the scholarship awarded by the Indian Council for Cultural Relations, was continued to him for a further period of one year. He was, therefore, retired from service in May 1954.

47. Sri C. W. B. Zacharias, Reader in the Department of Indian Economics, also retired ; but he was appointed as Deputy Director in the scheme of Agro-Economics Research and Economics of Farm Management Unit, which was established at the University from a grant received from the Ministry of Agriculture.

48. Dr. V. Raghavan, Reader in Sanskrit, rejoined duty after the period of leave granted to him to visit the British and Continental libraries. He availed himself of this opportunity for the collection of information regarding a large number of catalogues of Sanskrit manuscripts available in these libraries, which had not been chronicled before. Dr. K. Kunjunni Raja of the same department, who was also away for a period of about two years on a scholarship for higher studies awarded by the British Council rejoined the department.

49. Dr. George Kuriyan, Professor of Geography received a request from the American Geographical

Society to accept Editorship of the publication of 'A Handbook of India' to be published by the Society. He was granted leave out of India to take up this work for a period of 3 months from July 1954.

50. Dr. C. H. Alexandrowicz, Professor of International and Constitutional Law was granted leave out of India for a period of four months from April 1954. The leave period was utilised by him for collection of materials for the Year Book and for research at London University.

51. Dr. A. Ramakrishnan, Reader in Physics was permitted to accept the offer of visiting Senior Lectureship in the University of Sydney, Australia, and to accept the invitation of the Professor of Mathematical Statistics, Australian National University of Canberra, to deliver a few lectures on 'Stochastic Processes'. He spent about three months in Australia during which period, he delivered the lectures and visited the several University centres.

52. Dr. U. R. Ehrenfels, Senior Lecturer in Anthropology was away on leave out of India from 26th March 1954. He rejoined the department on 17th November 1954. During the period of his absence, Sri M. S. Gopalakrishnan, M.A., M.Litt., was appointed as Junior Lecturer in Anthropology.

53. Consequent on the sanction of a grant for the development of research facilities in Ore-Dressing in the Alagappa Chettiar College of Technology, the post of a Senior Lecturer in Ore-Dressing was created in the College. This post was filled by the appointment of Sri M. G. Subba Rao, B.Sc., B.Sc. (Tech.), A.M.I.Chem. E. (Lond.).

54. The following were the appointments made to the vacancies which had arisen in the University Departments during the year :—

Sri K. Kanakasabhapathy Pillai, M.A., D.Phil. (Oxon.), D.Litt., Professor of Indian History and Archaeology.

Sri V. Nagarajan, Research Assistant in Organic Chemistry.

Miss C. B. Ṣulochana, M.Sc., Research Assistant in Botany.

Sri R. Sivaramakrishnan, M.A., M.Sc., Research Assistant in Bio-chemistry.

Sri N. Subramanian, B.Sc., B.Sc. (Tech.)
Sri B.K. Sadananda Rao, B.Sc., B.Sc. (Tech.)
Sri B. Jagannadhaswamy, B.Sc. (Tech.)
} Demonstrators in the Alagappa Chettiar College of Technology, Guindy.

55. The services of the following teachers who attained 55 years of age during the year were extended for the periods noted against each :

1. Sri R. P. Sethu Pillai, Professor of Tamil—For two years from 30-6-54.
2. Sri M. Udaya Varma Raja, Veena Assistant—For two years from 20-12-54.
3. Sri Madurai S. Subrahmanya Ayyar, Violin Assistant—For one year from 30-6-54.
4. Mrs. Ellen Sharma, Lecturer in German—For two years from 15-11-53.

The terms of appointment of the following teachers who were on a part-time basis in the Department of Commerce were extended upto April 1956.

1. Sri P.D. Swaminatha Mudaliar, Professor of Income-tax Law.

2. Sri C. S. Rama Rao Sahib, B.A., B.L., Lecturer in Income-tax Law and Practice.

3. Sri B. Bhaktavatsalu Naidu, B.A., F.C.A., Lecturer in Auditing.

56. The names of teachers who were confirmed on the satisfactory completion of their probation are mentioned below :—

1. Dr. V. Raghavan, Reader in Sanskrit.

2. Dr. G. Krishnan, Reader in Zoology.

3. Sri Rafiuddin Ahmed Quraishi, Senior Lecturer in Spinning.

4. Sri O. K. Balakrishnan, Junior Lecturer in the Textile Technology Department.

5. Sri R. Madhavan, Artist Designer, Textile Technology Department.

6. Sri B. S. Venkatasubba Rao, Handloom Instructor, Textile Technology Department.

57. The University Grants Commission appointed by the Government of India circularised the Universities about certain scales of pay which they considered appropriate for Professors and Lecturers in the Universities, and called for information about the additional expenditure that would be involved in implementing the scales. The University submitted proposals and suggested that two other categories of teachers, *viz.*, Readers and Junior Lecturers might also be considered for improvement of their scales as well as teachers in Constituent and Affiliated Colleges. The University Grants Commission stated that for the first five-year plan period they would place at the disposal of the University a sum which would represent the difference between the scales of pay obtain-

ing in the University and the scales proposed by the Commission in respect of Professors and Lecturers and that the difference in the emoluments may be treated as personal allowance for the teachers concerned. The Commission also reported that the question of similar allowance to Junior Lecturers was under consideration. The Syndicate received the grant for the payment of such allowances to Professors and Lecturers with effect from 1st July 1954, till the end of February 1955. These allowances are now being paid to these two categories of teachers.

58. The University received an enquiry from the All India Handloom Board, whether it would be possible to take up the conduct of sample surveys in suitable centres. The University, in consultation with the Professor of Economics, has forwarded a scheme for this investigation.

59. The Central Leather Research Institute continued to co-operate with the University in giving instruction to the students for the Leather Technology course. Sri B. M. Das, M.A., M.Sc., Director of the Institute continued as Honorary Professor of Leather Technology and Sri Y. Nayudamma, B.Sc., M.Sc., Ph.D., continued as Honorary Reader of Leather Technology. The thanks of the University are due to these two gentlemen and the other members of the staff and to the Council of Scientific and Industrial Research for the continued co-operation that the University has received in running this course.

60. The year under report saw the completion of the equipment of the Textile Technology Department of the College of Technology. The Department is now a self-sufficient unit for imparting instruction for the Degree course in B.Sc. Textile Technology. Likewise

the Departments of Physics, Geology and Physical Chemistry have also been fully equipped for teaching and research.

61. **Scholarships :** The Government of India continued the scheme for the award of industrial training scholarships for this year also. Four scholarships were distributed as follows : Chemical Engineering 2 ; Textile Technology 1 ; and Leather Technology 1. The Government of India also continued the scheme for the award of Junior and Senior research training scholarships in the Science Departments of the University for the current year. The number of Junior and Senior Scholarship holders working at present in the various departments is as follows :—

Departments.		*Number of*	
		Junior Scholarships.	*Senior Scholarships.*
Chemistry	...	3	2
Mathematics	...	1	2
Statistics	...	2	2
Botany	...	3	5
Zoology	...	2	3
Bio-chemistry	...	3	3
Chemical Engineering		...	3

The Government of India, as on previous occasions awarded a few scholarships for research work in the Humanities. The awards made during the year are as follows :

1. Mr. K. Mahadeva Sastri ... Tamil Department.
2. Miss A. K. Srimathi ... Psychology Department.
3. Miss T. Prabhavathi ... History (at Presidency College, Madras).
4. Mrs. B. Audilakshmi ... Telugu Department.

The Government of India have also been pleased to sanction a few Fellowships for research in Modern Indian History at the National Archives of India to Post-graduate students from Indian Universities. Sri Parameshwara Ranjitha of the Madras Christian College, one of the applicants sponsored by the University has been awarded a Fellowship of the value of Rs. 150/- p.m. from the South Zone.

62. The Madras Government have been pleased to sanction the award of two scholarships of the value of Rs 56/- each p.m. in each of the following subjects for pursuing research (1) Geology and Geo-Physics; (2) Bio-chemistry; (3) Organic Chemistry ; (4) Physics and (5) Chemical Engineering. The award of scholarships by the State Government will greatly facilitate the pursuit of research in these important subjects in the University and give added opportunities to deserving candidates.

63. A scheme submitted by the University for a research project in Secondary Education to be undertaken in the Department of Psychology was approved by the Government of India. Two Research Scholarships have been sanctioned for this investigation and the scholars have already joined and taken up the work.

64. The following schemes of research sponsored by the Heads of the Departments noted against each are in progress in the respective departments :—

Name of the Scheme.	*Department.*	
1. Enzymic role of inositol.	Biochemistry	Indian Council of Medical Research.
2. Thyroidal Activity of Thyroglobulin and other Iodo-proteins.	Do	Council of Scientific and Industrial Research.

Name of the Scheme.	*Department.*	
3. Biochemical role of Zinc by radio-active zinc.	Do.	Atomic Energy Dept., Govt. of India.
4. X-ray and optical studies in Collagen.	Physics	Council of Scientific and Industrial Research.
5. Milk and Milk products.	Biochemistry	Madras State Research Committee.
6. Agro-Economic Research Unit.	Economics	Ministry of Agriculture, Govt. of India.
7. Economics of Farm Management.	Do.	Do.
8. Economic Survey of Madras City.	Do.	Planning Commission, Govt. of India.

The necessary personnel has also been appointed.

65. **Catalogus Catalogorum:** The work on Catalogus Catalogorum is progressing. The Government of India have sanctioned a further grant of Rs. 3,500/- for the continuance of the above work. With the return of the Reader with additional information and the assistance of the other members of the Department, the progress of the work is expected to be speeded up.

66. **Mackenzie Manuscripts:** The editing and publishing of the work has been taken up by the Department of Indian History and Archaeology and the late Professor Ramachandra Dikshitar prepared the translations of important manuscripts with a view to bringing out a small edition of its contents and subject

matter. After his demise, this work is being continued by the Reader and it is hoped that this will be completed during the next year.

67. **Tamil Lexicon:** The printing of the concise Tamil Lexicon has been completed. The concise Lexicon is expected to be available to the public shortly.

68. **Diploma and Certificate Courses:** The University continued to hold the Diploma Classes. The number of students attending the several courses is given below:

Diploma in Economics	1st year ...	11
	2nd year ...	4
Diploma in Statistics	1st year ...	35
	2nd year ...	25
Diploma in Politics and Public Administration	1st year ...	33
	2nd year ...	11
Diploma in Indian Music	1st year ...	16
	2nd year ...	9
Diploma in Journalism	...	8
Diploma in Librarianship	...	22
Diploma in Anthropology	1st year	1
	2nd year ...	7
Diploma in Modern European Languages:	French ...	11
	German ...	16
Certificate in:		
French	...	32
German	...	39
Anthropology	...	3
Librarianship	...	20

Specialists were invited to give lectures in the respective subjects in the Diploma Courses in Journalism, Economics, Politics and Public Administration and Anthropology.

69. **M.Sc. (By examination):** Arrangements for the conduct of M.Sc. course in the University Departments with the co-operation of the Honours Colleges in the City of Madras were continued. Classes for the M.Sc. in Physical Chemistry are conducted at the Loyola College, Madras, while classes for Botany—Morphology of Angiosperms—are conducted at the Presidency College, Madras. All the remaining classes are conducted in the University Departments.

Classes for the M.L. Degree in International Law are conducted by the University in the Department of Constitutional and International Law.

The number of students in the M.Sc. Degree Course (by examination) and the M.L. class in the above subject is given below :—

M.Sc. (by examination)

Mathematics (Theory of Structures)	...	18
Physics :		
X-Rays and Crystallography	...	4
Statistical Mechanics	...	4
Chemistry :		
Organic Chemistry	...	3
Biochemistry	...	2
Physical Chemistry (Loyola College)		1
Zoology : Marine	...	1
Botany :		
Plant Pathology	...	3
Morphology of Angiosperms (Presidency College)	...	2
Geology	...	4

M.L. Classes :

First Year	...	14
Second Year	...	8

70. **Inter-Collegiate Honours and Post-graduate Lectures** : Courses of lectures for honours and Post-graduate students continued to be organized on an Inter-Collegiate University Co-opation basis. The Post-graduate Council in the Humanities and Science subjects drew up the programme of lectures with the assistance of sub-committees for the several subjects. The lectures were delivered by the teachers of the University and those of Honours Colleges. The members of the Council were as follows :

Humanities.

The Rev. R. S. Macnicol, M.A. (*Convener*)
Sri T. K. Venkataraman, M.A.
The Rev. F. Basenach, S.J.
Sri S. A. W. Bukhari, M.A.
Dr. R. Balakrishna.
Dr. T. V. Mahalingam.
Sri R. Bhaskaran, M.A.

Sciences.

Dr. K. N. Menon (*Convener*)
Sri K. S. Anantanarayana Ayyar, M.A.
Dr. S. Gopalakrishnamurti.
The Rev. L. M. Yeddanapalli, S.J.
Dr. John P. Joshua
Dr. T. S. Sadasivan.
Dr. C. P. Gnanamuthu.

71. **Research and other publications:** Details of research works and lectures published during the year are given below :

General :

The Indian Year Book of International Affairs—Volume II—Editor : Dr. C. H. Alexandrowicz, Professor of International and Constitutional Law.

Indian Economics Department :

1. Agricultural Planning for Madras by Sri C. W. B. Zacharias, Reader.

2. Measurement of Productivity in Indian Industry by Dr. R. Balakrishna, Professor.

Indian History and Archaeology Department :

The Mauryan Polity—Second Edition—by Sri V. R. Ramachandra Dikshitar (Late Professor).

Indian Philosophy Department :

Gaudapada—Second Edition—by Dr. T. M. P. Mahadevan, Professor.

Tamil Department :

Tiruvaimozhi—Volumes III and IV—edited by Sri B. R. Purushothama Naidu, Junior Lecturer.

Telugu Department :

The Southern School in Telugu Literature—edited by Sri N. Venkata Rao, Senior Lecturer.

Kannada Department :

Parswanatha Purana—edited by Sri M. Mariappa Bhat, Reader.

Islamic Department :

Kulliyat-i-Abjadi — Part IV — Shah-i-Tuhfat-Al-Irqain Haqiqat Nama by Mir Ismail Khan Abjadi —edited by Sri Muhammad Husayn Mahvi and Sri Muhammad Yousuf Kokan.

The University Calendar, Volumes II and III, 1953-54, was also published during the year.

IX. OTHER GENERAL ITEMS OF IMPORTANCE

72. **Inter-University Board :** The Vice-Chancellor continued to represent the University on the Board. He continues to be the Chairman of the Standing Committee of the Inter-University Board. The next meeting of the Inter-University Board is to be held at Patna.

Consequent on the appointment of Sri Samuel Mathai, who was Secretary of the Board, as Secretary to the University Grants Commission and the appointment of Prof. V. K. Ayappan Pillai, as Secretary of the Inter-University Board, the Standing Committee of the Board requested the University whether it could provide accommodation for the Board as a temporary measure. The Syndicate acceded to this request and the Inter-University Board Office is now located in the Senate House, Madras.

73. **The Association of the Universities of the British Commonwealth :** The Vice-Chancellor continued to be the ex-officio representative of the University on the Association. He also continued to be one of the two representatives of the Inter-University Board on the Executive of the Association.

74. **University Grants Commission :** It was mentioned in the last report that a University Grants Commission had been constituted pending legislation

for the constitution of a statutory body. To a reference received from the Commission, the University has submitted its five-year plan of development, which envisages the establishment of new Departments of Archaeology, Business Management, Architecture, Social Studies, Teaching, Textile Chemistry, Unit laboratories in Chemical Engineering, etc. The scheme also comprehends proposals for the development of existing departments.

75. **University Extension Boards:** Extension Boards were constituted at the following places and lectures were arranged as usual by these Boards:

1. Coimbatore.
2. Ernakulam-Thevara.
3. Kancheepuram.
4. Karaikudi-Sivaganga-Virudhunagar.
5. Kozhikode-Feroke.
6. Palghat.
7. Tirunelveli-Palayamkottai.
8. Tiruchirapalli.
9. Trichur.
10. Vaniyambadi-Tirupattur.
11. Tuticorin.
12. Kumbakonam.
13. Pudukottai.
14. Vellore.

76. **Debates and Students' Seminars:** In addition to Inter-Collegiate Debates in English, Tamil, Telugu, Kannada, Malayalam and Urdu, debates were also organized during the year in Sanskrit and Hindi. The Debates were conducted on a zonal basis and the finals were arranged on an inter-zonal basis. Certificates were awarded to the winners. The following were the winners in the debates conducted during the year :—

ENGLISH

First : Mr. R. Venkatesan, Vivekananda College, Madras.

Second: Miss. Grace Adiappa, Presidency College, Madras. }
Mr. G. V. Fernandez, St. Xavier's College, Palayamkottai }

TAMIL

First : Mr. T. Martin, Law College, Madras.

Second : Mr. N. Dhanasekharan, Pachaiyappa's College, Madras.

Best Woman Speaker : Miss Indra Samuel, Sarah Tucker College, Palayamkottai.

TELUGU

First : Mr. B. Radhakrishnamurthy, Law College, Madras.

Second : Mr. G. Gurunatha Rao, Madras Christian College, Tambaram.

Best Woman Speaker : Kumari T. Dayanidhi, Women's Christian College, Madras.

KANNADA

First : Mr. K. Anantha Vailaya, Presidency College, Madras.

Second : Mr. N. Seshagiri Prabhu, Madras Christian College, Tambaram.

Best Woman Speaker : Kumari B. Chandri Baliga, St. Agnes College, Mangalore.

MALAYALAM

First : Mr. K.T. Raghavan, Guruvayurappan College, Kozhikode.

Second : Mr. P. Kumaran Unni, Pachaiyappa's College, Madras.

Best Woman Speaker : Kumari M. Sujatha Bai, Ethiraj College for Women, Madras.

SANSKRIT

First : Mr. K. Ganapathi Somayaji, S.M.S.P. Sanskrit College, Udipi.

Second : Mr. Prabhakara Saralaya, Madras Sanskrit College, Madras.

Best Woman Speaker : Kumari R. Rajalakshmi, Queen Mary's College, Madras.

HINDI

First : Kumari R. Sadguna, Stella Maris College, Madras.

Second : Kumari A. Jaya, Queen Mary's College, Madras.

URDU

First : Kumari U. Umai Iyman, Queen Mary's College, Madras.

Second : Mr. Syed Asrar, Presidency College, Madras.

77. The All India Radio organized an Inter-University Debate in English. The winner in the Inter-Collegiate elocution competition held at this University represented the University in the All India Radio Elocution Competition.

78. An Oxford Debating Team consisting of Mr. Jonathan Boswell and Mr. Bruce Burton visited Madras in October. Two debates were arranged with the students of the Madras University, one at Queen Mary's College and the other at Presidency College. The winners in the Inter-Collegiate Debate in English represented the University. The debates were well attended, and were a success.

79. An invitation was received from the President of the Andhra University College Union to a debating contest and a debating team was sent to compete for the Patabhirama Rao Rolling Cup. This University team was declared the winners.

80. On an invitation received through the *Charge d' Affaires* of the Embassy of Russia at Delhi from the

University of Moscow, to send a visiting team of Professors and students from this University, and with the concurrence of the Government of India, this University sent a delegation consisting of—

1. Dr. V. R. Thayumanaswamy, Professor of Therapeutics, Madras Medical College, Madras.
2. Mr. N. A. Subramanian, Law College, Madras.
3. Mr. K. Jathindra Mohan Shetty, Presidency College, Madras.
4. Mr. S. Ranganathan, Madras Christian College, Tambaram.

The delegation left Madras towards the end of October and spent three weeks in Russia as guests of the University of Moscow.

81. **Visits :** The University had the honour of a visit by an Afghan Delegation headed by H. E. Ali Ahmed Khan Popal, Dy. Minister of Education of Afghanistan in February 1954. Sri K. P. S. Menon of the Ministry of External Affairs of the Government of India accompanied the delegation. The visitors met the Vice-Chancellor and were taken round the University

82. Among other distinguished personages, who visited the University and gave lectures at the University, mention may be made of the following :

Name of the Person	*Subject of Lectures*
1. Dr. Everest Rose Clinchy, American Educator and Theologian.	Social sciences and education and Inter-group relations.
2. Dr. William Shimer, American Educator.	Universal Elements in Living Culture and Religions.

Name of the Person	*Subject of Lectures*
3. Dr. Arthur Compton, distinguished American Physicist and Nobel Prize Holder in Physics.	Human values in an age of Technology.
4. Mr. Hilton Brown, formerly in the I.C.S. in South India and a well known writer.	Modern English Fiction.
5. Dr. Clarke T. Case, M.D., F.A.C.S., Fulbright Lecturer and Associate Professor in Surgery at the Christian Medical College, Vellore.	Indications for Surgery in Gall bladder disease. Observations in Jejunostomy Feeding.
6. Dr. Peter Manniche, A Danish expert in Folk Schools and Rural Colleges.	The folk High Schools in Denmark and the development of a Farming community.
7. Dr. Lionelle Venthuri, Professor in the University of Rome and one of the out-standing authorities on painters and painting.	How to look at a Western Painting.
8. Mr. Carl T. Rowan, M.A., University of Minnesota, U.S.A.	The Role of Newspaper in Social Change; a Free Press in a Free Society.
9. Dr. G. S. Fraenkal, Professor of Illinois University, U.S.A.	Use of insects in Nutritional Research; Insects and plants.
10. Prof. P. A. M. Dirac, F.R.S., Lucasian Professor of Mathematics, University of Cambridge and Nobel Laureate in Physics.	Quantum Theory of Spin.

Mr. Michael Thomas Mann, an American Violist who was invited by the University, gave a viola recital in March 1954.

83. **Foreign Scholars:** This University has always had a fair number of foreign scholars undergoing instruction for various courses of studies. The Government of India under the Cultural Scholarship scheme have deputed a number of scholars to undergo instruction for various courses of studies. Among the scholars thus deputed mention may be made of :—

1. Mr. John Frederick Staal of Netherlands who is pursuing his Post-graduate study in the Philosophy Department of the University for the Ph.D. Degree course.

2. Mrs. Vijayamma Thomas from Malaya who is studying for the M.Sc. in Zoology.

3. Mr. R. Mahadeve from Burma who is undergoing the B.Sc. (Tech.) Degree course in Textile Technology.

4. Mr. Heinz Tittelback, German Cultural Scholar from Bonn, Germany, to study Tamil, Sanskrit and Hindi.

The following two foreign nationals are working in the Department of Sanskrit :—

1. Mr. Klaus Commann from Heidelberg.

2. Mr. William Norman Brown from Pennysylvania University.

The Government of India have also deputed a few scholars for study in graduate courses. The following is the statement of other foreign scholars studying in the several Colleges of the University:

Ceylon	... 447	Pakistan	... 3
Malaya	... 42	Malacca	... 1
Africa	... 26	Siam	... 3
Burma	... 8	Iraq	... 2
Fiji	... 8	U.S.A.	... 3
Mauritius	... 6	British Guiana	... 3
China	... 1	Nepal	... 1
Phillippines	... 1		

84. Under the auspices of the Indian Council of Cultural Affairs which provided a small grant, a party was held for these foreign scholars on the 24th August at the Madras Medical College. Dr. Kaka Kalelkar, *Vice-President* of the Council addressed the students. A seminar was also arranged by the Indian Council of Cultural Affairs at Kodaikanal during the summer holidays.

85. **University Union**: The Rev. L. D. Murphy, S.J., M.A., continued as Honorary Treasurer of the University Union. The University Tournaments and Sports Committee was reconstituted for a further term of three years with effect from 24th July 1954. The activities of the Union continued as usual. The old Union Pavilion having developed very bad cracks, the University was advised to demolish the pavilion. The pavilion was accordingly demolished and proposals for the construction of a new pavilion are on hand. The Union is continuing to function in a shed erected for the purpose at the sports grounds. The grounds of the Union were utilized for the conduct of Inter-Collegiate and Inter-University Tournaments.

86. Inter-Collegiate Tournaments for men and women students were held separately during the year. The University also participated in the Inter-University events. A detailed report by the Honorary Treasurer will be found in **Appendix D.**

87. Dr. Alagappa Chettiar College Endowment Trust offered to present two rolling cups in the name of Dr. A. Lakshmanaswami Mudaliar and the Maharaja of Bhavanagar for the Madura Division Championship in Cricket and Football in the Inter-Collegiate Tournaments. The Syndicate gratefully accepted the offer and the Trust has already presented the cups to the University. Another silver cup was offered by the Trust to be awarded to the College that wins the largest number of points in the Inter-Collegiate Athletics Tournaments for women. This offer was also gladly accepted by the Syndicate.

88. A reference was received from the Chairman of the Inter-University Board that the Inter-University Board has selected a team of Athletes for the XII World University Summer Games to be held in Budapest and that two athletes were selected from this University. On the request of the Board, the University sanctioned payment of an equipment allowance of Rs. 500 for each of the students, the travelling allowance and other expenses being met by the organizing authorities.

89. **National Cadet Corps :** It has already been mentioned that consequent on the introduction of Air Training Wing in this University, suitable alterations were made in the Regulations to provide for the Certificates II and III of the Air Training Wing being placed on a par with the Certificates B & C of the Army Wing for purposes of exemption from a part of the examination for the Intermediate, B.A. and B.Sc. Degree courses. The main feature of the work of the N.C.C. this year was the bifurcation of 'D' company previously attached to the Government College, Kumbakonam into two platoons retaining one platoon in the Government College, Kumbakonam and the other being attached to the Rajah's College, Pudukottai.

90. Proposals have been submitted to the Government for increased facilities for training in the National

Cadet Corps. The Government of India have already agreed to meet a larger share of the expenditure on the N.C.C. It is the hope of the University that with the increased share of responsibility that the Government of India propose to take in the matter of financing the N.C.C., additional units will be possible in the coming year, so that colleges in all the regions would be adequately served. As a result of this aid the following new units had been raised by the State Government :—

(i) Tambaram Indep. Coy. N.C.C.

(ii) Additional Company at Coimbatore (for P.S.G. Arts College and Government Arts College).

(iii) 9th Madras E.M.E. Sec. N.C.C., Karaikudi (Alagappa Chettiar's Engineering College of Technology).

(iv) 10th Madras E.M.E. Sec. N.C.C., Coimbatore (P.S.G. & Sons Charities' College of Technology and Government College of Technology).

(v) Girls Division Senior Wing—3 Sub-Troops in Madras (one each in Queen Mary's College, Ethiraj College for Women and Presidency College).

91. Another feature worth mentioning regarding the organization and working of the N.C.C. is the part that the N.C.C. has played in regard to social service activities. The second combined cadre camp was held at Pannalurpet 40 miles from Madras, with about 800 cadets and 24 officers. The bund of a tank for irrigation which was built by them was greatly appreciated. Further details with regard to the work of the N.C.C. will be found in **Appendix F.**

92. **Prizes for the encouragement of Publications of Modern works in Indian Languages—Original works :** The subject chosen for the prize

for the year 1953-54 was "A New Geography of India". Four theses were received for the prize, two in Tamil and two in Kannada, and the theses are under examination.

93. **Adaptations:** "Earthlore Geology without Jargon" was the book selected for the year 1951-52 for adaptation in Tamil. The selected adaptation has been sent to the scrutinizer for approval. The book selected for the year 1953-54 was "An Introduction to Cultural Anthropology." The proposal to adapt this book into Indian languages had to be abandoned in view of the conditions laid down by the publishers of the original book.

94. **Publications:** In 1935, the University granted at the request of Sri C. K. Subramania Pillai a sum of Rs. 1,000 towards publication of the Commentaries on Periapuranam. On a request from the author, for additional grant, the Senate sanctioned an additional sum of Rs. 1,000 towards the same publication.

95. A special grant of Rs. 1,000 was also given to the Indian Academy of Sciences towards cost of publishing the research papers sent by the Heads of Departments of the University in the proceedings of the Academy.

96. The Senate adopted a resolution at its meeting in March 1954 recommending the publication by the University of "Comparative Grammar of the Dravidian or South Indian Family of Languages by Dr. Caldwell" of which copies were not available. In view of its importance, the Syndicate decided to print a further edition of this publication and has also secured from the original publishers permission to reprint it. Arrangements for printing are now in progress.

97. **Printing Press:** The question of the University owning a Printing Press has come up before the Senate and the Syndicate on several occasions. After a

reference to various printers and to other Universities, regarding capital cost and the recurring expenditure involved in owning a printing press, a Special Committee of the Syndicate considered this question at its meeting in October 1954 and an interim report about the possibility of the University establishing a printing press was presented to the Senate. Further details regarding the commitments, should the University own a Printing Press, are being obtained and if the investigations prove fruitful, it is likely that in the coming year, the University may take definite steps for establishing a press of its own.

98. **Elections :** Elections were held to interim vacancies on the various University bodies. At the suggestion of a member, about printing of the Registered Graduates List District-war, the Syndicate considered the subject and has resolved that the next list of Registered Graduates may be published on that basis. The Registered Graduates List has been revised accordingly and reprinted.

99. With the permission of the Syndicate a small unit of the Central Marine Research Station is accommodated in one of the rooms in the building vacated by the Biochemistry Department at Chepauk. Similar accommodation has also been granted in the same building to the Plant Pathologist of the Directorate of Plant Protection and Storage of the Government of India, for a year, which has been renewed for another year.

100. **Nominations to outside Bodies and Delegations to Conferences, etc. :** Sri T. Balakrishnan Nayar, M.A., Principal, Presidency College, Madras, represented the University at a Conference of representatives of Universities in the teaching of History

in University at New Delhi in March. The following gentlemen represented the University at the International Congresses stated against each :

The Rev. C. Racine, S.J., D.Sc.	...	International Congress of Mathematicians at Amsterdam in September 1954.
Dr. T. S. Sadasivan, Director, Botany Laboratory.	...	Sixth Commonwealth Entomological Conference and Fifth Micological Conference held in London in July 1954.
Dr. A. T. John, M.D.	...	Health Congress at Scarborough in April 1954.
Dr. E. V. Srinivasan, M.B.C.M.	...	27th International Congress of Ophthalmology at Montreal in September 1954.

101. A commission appointed by the Government of Ceylon on Higher Education in their National Languages met the Vice-Chancellor and had a discussion with him on the subject.

102. The University became an Incorporate Member of the Institute of Public Administration and the Reader in Politics and Public Administration in the University was permitted to attend the first meeting of the Institute.

103. As usual the teachers of the University were deputed by the University to the annual Conferences and Congresses concerning their subjects of study during the year. The following were the teachers so deputed :

All India Textile Conference at Bombay :—

Sri B. C. Mohanty, M.Sc. (Leeds), Professor of Textile Technology.

Sanskrit Vishva Parishad Session at Nagpur :—

Sri V. Raghavan M.A., Ph.D. Reader in Sanskrit.

Indian Philosophical Congress in Ceylon :—

Sri T. M. P. Mahadevan, M.A., Ph.D., Professor of Philosophy.

All India Writers' Conference at Annamalainagar :—

Sri S. Shankar Raju Naidu, M.A., Senior Lecturer in Hindi.

Sri N. Venkata Rao, M.A., Senior Lecturer in Telugu.

Indian History Congress at Ahmedabad :—

Sri K. Kanakasabhapathi Pillai, M.A., D.Phil. (Oxon.), D.Litt., Professor of Indian History and Archaeology.

Indian Science Congress at Baroda :—

Sri George Kuriyan, B.A., B.Sc., Ph.D. (Lond.), Professor of Geography.

Sri G. D. Boaz, M.A., D.Phil. (Oxon.), Professor of Psychology.

Sri T. S. Sadasivan, M.Sc., Ph.D. (Lond.), F.A.Sc., F.B.S., Professor of Botany.

Sri G. N. Ramachandran, M.Sc., Ph.D. (Camb.), D.Sc., A.I.I.Sc., F.A.Sc., Professor of Physics.

Sri P. S. Sarma, M.Sc., Ph.D. (Wisconsin), F.R.I.C. (Lond.), F.A.Sc., Professor of Bio-chemistry.

Sri D. V. Rajalakshman, M.A., M.Sc., Ph.D. (Manchester), F.S.S., Reader in Statistics.

Sri S. Swaminathan, B.Sc. (Hons.), Ph.D. (Illinois), A.I.I.Sc., Reader in Organic Chemistry.

Sri M. Santhappa, B.A., Ph.D. (Manchester), Ph.D. (Lond.), Reader in Physical Chemistry.

Sri G. Krishnan, M.A., M.Sc., Ph.D. (Manchester), Reader in Zoology.

Sri A. P. Madhavan Nair, M.A., Reader in Chemical Technology.

Twentieth Conference of the Indian Mathematical Society at Hyderabad :—

Sri V. S. Krishnan, M.A., D.Sc., B.T., Reader in Mathematics.

Annual Meeting of the Indian Institute of Chemical Engineers at Baroda :—

Sri G. S. Laddha, B.Sc. (Tech.), M.S.Ch.E.(Purdue), Ph.D. (Purdue), A.M.I.I. Chem. E., Ag. Professor of Chemical Engineering, Alagappa Chettiar College of Technology, Guindy.

Indian Political Science Conference at Muzaffarpur :—

Sri R. Bhaskaran, M.A., Reader in Politics and Public Administration.

Indian Academy of Sciences at Belgaum :—

Sri A. Ramakrishnan, B.Sc. (Hons.), Ph.D. Reader in Physics.

Indian Economic Conference at Agra :—

Sri R. Balakrishna, M.A., Ph.D., Professor of Economics (Also President of the Conference).

X. BUILDINGS AND ACCOMMODATION

104. With regard to buildings and accommodation, as already mentioned, necessary steps will be taken for the construction of a hostel for Women students in conjunction with a hostel for Presidency College as soon as the Government have decided the matter.

105. For the preparation of buildings plans and estimates for work connected with the University, the Syndicate decided to call for offers from Architects. The offers which have been received in response to this advertisement are under scrutiny and an Architect will be appointed shortly by the Syndicate. For reporting on any work or repairs that may arise, the Syndicate has availed itself of the services of the Engineer, Mr. N. A. Nityanandam, who has been appointed for the University Hostel Construction Co-operative Society, by paying an extra allowance of Rs. 50 per mensem.

XI. LIBRARY

106. Sri R. Janardhanam Naidu, B.A., L.T., Dip. Ed. (Oxon.), Dip. L.S. (Lond.), F.L.A., continued to be the Librarian, his services having been extended by two years from 25th July 1953.

Sri V. S. Muthiah, M.A., L.T., A.M.L.S. (Michigan), continued to be the Assistant Librarian.

107. **Main Library:** One important feature of the year was the bringing into unified control, the main library and the Departmental Libraries under the Librarian of the University. The Departmental Libraries were previously in two sections under an Honorary Librarian, usually a teacher of the University. The Syndicate found that this arrangement was not working very satisfactorily and resolved that the two sectional libraries be merged into one and be placed in charge of the Librarian, who would be responsible not only for its administration but also for its service. The Departmental Libraries thus came under the unified authority of the Librarian from the 22nd April 1954.

108. **Reference Section:** Bibliographical lists were prepared and supplied as usual to members and inquirers.

109. **Issue Section:** 4,609 members borrowed the books from the Library. Of these, 622 joined during the year. There were 406 mofussil members. 1,71,240 books were consulted within the Library and 1,10,005 books were issued for home reading. The number of readers that used the Library during the year was 86,581.

110. **Hours of the Library:** The Library worked from 8 a.m. to 8 p.m. on all days of the year, including Sundays and other public holidays.

111. **Binding Section:** 1,138 books and 1,331 periodical publications were bound during the year under report.

112. **Technical Section:** 4,607 volumes of books and periodicals, 42 theses and 24 research reports were accessioned, classified and catalogued during the year involving the preparation of 15,740 cards.

113. **Book Section:** 5,019 volumes were added to the Library of which 3,368 were purchased and 1,751 by donation or exchange. Of these, 1,496 were deposited in the Departmental Libraries.

There are 1,37,003 volumes in the main library and 33,443 volumes in the Departmental Libraries, thus making a total of 1,70,446 volumes. Besides these, the Library also possesses 2,236 maps, 40 paper manuscripts and two sets of photostat copies of Ramanujam's manuscripts. 41 more copies of theses submitted for research degrees of the University were deposited in the main Library, thus making a total of 678. 22 final reports of research students have also been placed in the Library.

114. The Library acknowledged with thanks the receipt of valuable books and priodicals as gifts from the following:—

1. Commonwealth Scientific and Industrial Research Organization, Australia.

2. Carnegie Endowment for International Peace, Washington.
3. United States Information Service, Madras.
4. British Information Service, Madras.
5. Foreign Service of the U.S.A., Washington (64 books for the Department of International Law).
6. Sri C. Subramania Iyer, Retired Accountant-General, Madras-4.
7. Secretary, Indian Council of World Affairs, New Delhi.
8. Hon'ble Justice A. S. P. Ayyar, I.C.S., High Court, Madras.

115. **Periodical Publications:** The current periodical publications were 2,628 of which 2,169 were placed in the main Library and the rest in the Departmental Libraries.

116. **Finance:** The usual grant for the Library of Rs. 43,500 and the Departmental grant amounting to Rs. 27,390 were credited to the Library Account. The annual interest on investments amounted to Rs. 7,422.

The accounts of the Library were as usual audited by the Examiner of Local Fund Accounts.

117. The University records with pleasure that a sum of Rs. 40,000 has been sanctioned by the University Grants Commission as grant for the purchase of books and journals in Science for the general Library. Another grant of Rs. 30,000 has also been promised for purchase of books in the Humanities Section.

118. The University is indebted to several Government Institutions, Publishers and individual donors for the free supply of their publications.

119. **Librarianship:** 19 students completed the Diploma course in Librarianship and 18 earned their Diplomas. 22 students have joined the course in the current year.

The Certificate course in Librarianship was conducted during the months of April, May and June. 20 students joined the course and 18 qualified themselves for the Certificate.

120. **Departmental Libraries:** Dr. D. V. Rajalakshman, Reader in Statistics, continued to be the Honorary Librarian, till the libraries were transferred to the control of the Librarian of the University Library on 22nd April 1954.

121. 837 volumes were added to the Departmental Libraries in the course of the year. 1,989 current numbers of loose journals indented for by the various Departments were also received, as against 1,453 for the last year. In addition to the Teachers and Research Workers of the University, the Departmental libraries are being used by several members of the Staff of Colleges and College students.

123. The number of visitors was 7,072 and the number of books consulted and lent was 15,513 and 3,592 respectively.

After obtaining a special grant, 744 volumes of books and journals were bound during the year.

124. Two more teakwood almirahs and 2 Godrej almirahs with glass shutters were purchased and placed in the Departmental Libraries to accommodate new volumes. Further, old books, reports and periodicals, numbering 939 from various sections of the libraries were transferred to the General Library.

XII. MADRAS UNIVERSITY STUDENTS' INFORMATION BUREAU

125. The Bureau continued to render useful service to the alumni of this University and others as usual. Mr. G. A. Dharmarajan, M.A. (Oxon.), continued to be the Secretary of the Bureau.

126. Statistical details regarding visitors and enquiries and replies thereto are given below :—

1.	Number of visitors for information ...	1,904
2.	Number of written enquiries ...	1,112
3.	Number of written replies ...	1,186
4.	Number of applications forwarded through the Bureau ...	34
5.	Number of admissions obtained.	21

127. **Reference Library :** Additional pamphlets and Calendars of Universities of the Commonwealth and the U.S.A. were acquired. Guide books and pamphlets were purchased for the reference library of the Information Bureau.

128. **Information compiling :** Subsequent to the publication of the Guide Book, information was compiled daily on different subjects of arts, science, technology and professions. Relevant statistics were also collected to enable young people to estimate the prospect in each line.

129. **Scholarships :** Information and guidance on various scholarships offered this year by U.S.A., U.K., the Government of India and other countries were given to students.

130. **Competitive Examinations :** Prospectus of competitive examinations for entry into armed forces and for entry into other services was obtained for the benefit of information and guidance to students.

131. **Professional Examinations:** Information on conditions of membership and examination regulations of various professional institutes of recognized standing were obtained and students were given the necessary guidance.

132. The Guide Book published by the University was favourably reviewed by the leading newspapers the Government of Madras monthly Information, the Government of India Educational Quarterly and others. The information gathered for the guide book is being kept up-to-date with changes and corrections.

133. **Liaison:** The Bureau continued its liaison with information services of U.K., U.S.A. and other Information Bureaux and educational institutions in India and abroad.

134. An increasing number of students and parents are making use of the Bureau for planning their courses of studies and subsequent careers.

XIII. ENDOWMENTS

135. The Syndicate reports the receipt of the following endowments which have been accepted by the Senate during the year :—

The Furqan Prize :—

An endowment of a sum of Rs. 2,000 from Sri M. R. Haji Abdul Wahid Sahib, *Chairman*, Municipal Council, Ambur and Member of the Senate, for instituting a prize in the University in memory of Syadana Abubaker Siddique, the first Caliph of Islam, to be awarded to the candidate who qualifies for the Degree of Bachelor of Arts (Honours) in Br. XIII—Islamic History and Culture, at the first appearance, taking a first or second class, and obtaining the highest number of marks in all the papers under Part II of the Examination.

The Raihan Prize :—

An endowment of a sum of Rs. 1,700 from Sri M. R. Haji Abdul Wahid Sahib *Chairman,* Municipal Council, Ambur, for instituting a prize in the University in memory of Syadana Oomar Farooq, the second Caliph of Islam, to be awarded to a candidate who qualifies for the Degree of Bachelor of Arts (Pass) in Gr. (iv-d)—Islamic History and Culture at the first appearance taking a first or second class and obtaining the highest number of marks in Part III of the Examination.

136. *The Rama Panikker Medal* :—An endowment of a sum of Rs. 2,000 has been made for instituting a prize of the annual value of Rs. 60 for proficiency in Indian Music at the B.A. Degree Examination. The conditions of the Endowment are being drawn up.

A sum of Rs. 10,000 has been received from Messrs. Amrutanjanam Ltd., for instituting a prize in the Faculty of Medicine. The manner and the conditions for utilization of this amount are under correspondence with the donors.

137. In accordance with a Will left by the late Sri K. N. Aiyah Ayyar, he had bequeathed to the University his house and ground Nos. 70 and 84L in the Kutcheri Road, Mylapore, Madras, towards founding an endowment in his name. This property, on the demise of his widow in November 1953, has now come to the University in accordance with the Will. The manner of utilization and founding an endowment are under consideration.

138. The Syndicate has learnt with regret the demise of Miss Theodora Lazarus whose munificient

contribution of Rs. 55,800 in 1946 helped the establishment of a Chair in Tamil in the University.

139. **Theses Prizes :** The Ramanujam Memorial Prize in Mathematics was not awarded.

140. The V. C. Rangaswami Memorial Prize was awarded to Srimathi V. K. Savithri, for her thesis " Tariff Policy in India since 1921 " which was approved for the M.Litt. Degree.

141. The Maharaja of Travancore Curzon Endowment Prize :—One thesis that has been received is under examination.

142. The following prizes were not awarded during the year as no theses were received :—

1. The Gokhale Prize.
2. The Sankara Parvathi Prize.
3. Sir William Wedderburn Prize.

The Andhra University Medallion was also not awarded during the year as there were no eligible candidates.

143. The subject for the Ramarayaningar Prize for 1953-54 was " Hybrids—Theory ; and practical advantages in Agriculture and Horticulture." Two theses were received for the prize ; but the prize was not awarded as neither of the theses came up to the standard.

XIV. LECTURES

144. Lectures under the following endowments were delivered by the scholars invited for the purpose during the year. The subject of the lectures are also noted against each :—

1952-53	*Name*	*Subject*
1. The Sir William Meyer Lectures.	Sri S. N. Sen, M.A., Ph.D., D.Litt.	" India through Chinese eyes."

1953-54	*Name*	*Subject*
2. The Maharaja of Travancore Curzon Lectures in Medicine.	Sri P. Madhavan, B.A., M.B.B.S., D.G.O., M.D.	"Toxaemias of Pregnancy."
3. The Maharaja of Travancore Curzon Lectures in Engineering.	Sri P. Govindakrishnayya, B.A., B.E., A.M.I.E.	"Petroleum and Engineering."
4. The Maharaja of Travancore Curzon Lectures in Agriculture.	Sri S. Krishnamurthi, B.Sc. (Ag.), M.Sc., Ph.D.	"The Modern Citrus Industry and its Problems."
5. The Principal Miller Lecture.	Miss R. I. Bedford, M.A., Dip. in Anth.	"Spiritual Illusions of Culture and Religious Transfiguration."
6. Dr. Elizabeth Matthai Lectures.	Sri G. V. Sathyanarayanamurthi, M.D.	"A Survey of Neurological cases seeking relief at Visakhapatnam with special reference to their incidence in Women & Children."
7. The Diwan Bahadur K. Krishnaswami Rao Lectures.	Sri A. Sankaran, M.A., Ph.D.	"Truth and Error in Indian Philosophical Systems."
8. The Father P. Carty Lectures.	Prof. M. Abdul Qadir, B.Sc. (Hons.) (Econ.), Lond.	"Planning and Indian Labour."

1953-54	*Name*	*Subject*
9. The Oosman Muhammad Ismail-Oosman Muhammad Haque Lectures.	Dr. Yusuf Hussain Khan.	"Some aspects of Muslim culture in Mediaeval India."
10. The Sir Alladi Krishnaswami Ayyar Shashtiabdapoorthi Lectures.	Sri S. S. Marathe, B.Sc. (Hons.) (Lond.).	"Deficit financing and economic development."

The following lectures were delivered in January 1955:—

1953-54		
11. The Sir William Meyer Lectures.	Sri R. Balakrishna, M.A , Ph D , Prof. of Economics, University of Madras.	"Recent trends in Indian Finance."
1954-55		
12. The Maharaja of Travancore Curzon Lectures in Agriculture.	Sri R. Balasubrahmanyan, B.A., B.Sc. (Ag.), D.M.R. (Lond.)	"Cotton cultivation and its development."
13. The Principal Miller Lectures.	Sri K. C. Varadachari, M.A , Ph.D.	"Human Progress —Its Reality & Meaning."
14. The Rt. Hon. V. S. Srinivasa Sastri Lectures.	Sardar K. M. Panikkar.	"The relationship of Civil Services to the States with special reference to India."
15. The Maharaja of Travancore Curzon Lectures in Engineering.	Sri K. S. Hegde, B.E ,M.A.(Engg.), Professor of Tele-Communication, College of Engg., Guindy.	"Electronics in Industry and Research."

145. **Vacation Lectures:** The University proposes to arrange vacation lectures for the benefit of teachers as on previous occasions. The Director of Public Instruction, Madras, has been requested to forward his suggestions regarding the conduct of these lectures and on receipt of his reply, final arrangements will be made.

XV. ACCOUNTS

146 The accounts of the University including those of the University Library for 1953-54 were prepared under Section 21 of the Madras University Act and audited by the Examiner of Local Fund Accounts, Madras.

147. The Government of Madras have sanctioned as non-recurring grant a sum of Rs. 4,50,000 towards the institution of the Departments of Physics and Geology and Geo-physics, the grant being payable in three annual instalments from the year 1951-52. The third and the final instalment of this grant was received during the year 1953-54 and credited to the respective accounts.

148. The University Grants Commission has been pleased to sanction the following non-recurring grants during the year 1953-54 for the purchase of equipment for the Science Departments :

		RS.
Chemistry	...	30,000
Bio-chemistry	...	20,000
Physics	...	25,000
Botany	...	10,000
Statistics	...	4,500
Ore-Dressing section of the Chemical Engineering Department	...	30,000

149. The Government of India have also sanctioned the following grants during the year towards development of fundamental research :

		RS.	
Non-recurring :—			
Botany	...	2,000	
Zoology	...	1,000	
Bio-chemistry	...	10,000	
Org. Chemistry	...	6,500	
Physics	...	7,000	
Psychology	...	6,000	(For equipment and books under five year plan).

150. A recurring grant of Rs. 15,775 towards additional appointments of one Reader each in the Departments of Organic Chemistry, Botany and Statistics and one Lecturer each in the Departments of Zoology and Bio-chemistry was also received during the year.

A grant of Rs. 3,500/- sanctioned by the Government of India, Ministry of Education, in March 1954 towards preparation of Catalogus Catalogorum of Sanskrit Manuscripts, was also received during the year.

151. In connection with the Youth Welfare Programme of the Government of India, a sum of Rs. 50,000 has been received towards construction of open air theatres and swimming pool in the following institutions. Part of the grant has already been disbursed to the institutions concerned and on completion of the projects the balance of the grant will be distributed to them. Similar applications from other institutions received during the year have also been forwarded to the Government of India for favourable consideration.

Institution	Purpose
Vivekananda College, Madras	Open Air Theatre.
Queen Mary's College, Madras	Open Air Theatre.
Stella Maris College, Madras	Open Air Theatre.
Veterinary College, Madras	Open Air Theatre.
Agurchand Manmul Jain College, Madras	Open Air Theatre.
College of Engineering, Madras ...	Swimming Pool.

152. Particulars of receipt and expenditure under the Fee Fund account, for the year 1953-54 are as shown below :—

	RS.	RS.
Receipts.		
A. General Administration.	4,13,742	
B. Examination fees ...	19,86,538	
		24,00,280
Expenditure.		
A. General Administrative charges ...	9,38,226	
B. Examination charges ...	12,78,591	
		22,16,817

153. As in previous years contributions were paid from the Fee Fund to the Inter-University Board, India (Rs. 2,250), the Association of the Universities of the British Commonwealth (Rs. 2,404), National Cadet Corps (Rs. 9,700), University Union (Rs. 12,000), Inter-University Tournaments and Sports (Rs. 20,000) and to Journals and Scientific Associations (Rs. 3,846).

154. A sum of Rs. 6,51,000 was received from the State Government towards the annual recurring grant-in-aid of the general resources of the University and the amount has been allocated to the several accounts as shown below :—

	RS.
Fee Fund Account ...	3,000
Vice-Chancellor's Salary Account ...	26,000
Travelling Allowance Account ...	40,000
Library Account ...	43,500
Research and Development Account.	3,000
Students' Information Bureau Account.	3,000
Economics Department Account ...	30,000
Indian History Department Account.	30,000
Mathematics Department Account ...	25,000
Statistics Department Account ...	6,000
Indian Philosophy Department Account ...	12,000
Psychology Department Account ...	9,000
Geography Department Account ...	8,800
Legal Studies Department Account ...	12,500
Physics Department Account ...	54,000
Chemistry Department Account ...	63,000
Botany Department Account ...	20,000
Zoology Department Account ...	50,000
Geology and Geophysics Department Account ...	40,000
Oriental Research Institute Account ...	87,200
Alagappa Chettiar College of Technology Account ...	85,000
	6,51,000

155. As the grant received from Government was not sufficient for the maintenance of some of the Departments the following contributions were made from the University Funds during the year :

		RS.
Botany Department Account	...	25,000
Statistics Department Account	...	3,000
Psychology Department Account	...	12,000
Alagappa Chettiar College of Technology Account	...	2,00,000
Legal Studies Department Account	...	35,000
Geography Department Account	...	20,000
Oriental Research Institute Account	...	10,000
Travelling Allowance Account	...	50,000

156. A sum of Rs. 46,000 towards Chemical Engineering section and a sum of Rs. 38,300 for the Textile Technology section have been received as recurring grants during the year 1953-54 for the Alagappa Chettiar College of Technology from the University Grants Commission.

157. Government securities, Ten-year Treasury Savings Deposit Certificates and Debentures in the Central Co-operative Land Mortgage Bank of the total face value of Rs. 6,04,000 were purchased during the year against the different accounts of the University.

158. The Financial estimates for the year 1954-55 were approved by the Senate at its meeting held on the 31st March 1954.

XVI. CONCLUSION

159. The Syndicate records its appreciation of the good work done by the Registrar, Deputy Registrar and the staff as also the Librarian and the Teachers of the University during the year.

160. The Syndicate also wishes to record its appreciation of the good work done by the Colleges which have in no small part contributed to the successful working of the University for the year.

161. In particular the Syndicate wished to convey to the Principals of Colleges and to the Boards of Managements of all Colleges their sincere appreciation and thanks for their hearty co-operation with the University authorities in all their endeavour to ensure the efficient and successful working of the University.

APPENDIX A

Affiliation granted to Colleges in 1954-55

Name of College.	*Courses or subjects in which affiliation was granted.*
1. Agurchand Manmull Jain College, Meenambakam, Madras-27.	(*a*) B.A. Part I—English. Part II—Sanskrit, Tamil and Hindi. Part III—Group (i-b) Mathematics with Astronomy and Pure Geometry, Group (iv-b) Economics and History.
	(*b*) B.Com. Part I—English. Part II—Hindi and Tamil. Part III—Special Subject—Co-operation or Statistical Methods and their application to Commerce.
2. Government Arts College, Madras-2.	(*a*) Intermediate Part III—Tamil (Higher Standard).
	(*b*) B.Sc. Part II—Statistics (Subsidiary).
3. Vivekananda College, Madras-4.	B.A. (Hons.)—Branch VIII—Sanskrit.
4. Sir Theagaraya College, Madras-21.	B.A. Part I—English. Part II—Tamil and Telugu. Part III—Group (i-b)—Mathematics with Statistics and Economics, Group (iv-b)—Economics and History.
5. The New College, Madras.	Intermediate Part III—Physics, Chemistry and Natural Science.
6. Government Arts College, Cuddapah.	B.A. Part III—Group (i-b)—Mathematics (with statistics and Pure Geometry).
7. Government Arts College, Coimbatore.	B.A. Part III—Group (v)—Tamil.

Name of College.	*Courses or subjects in which affiliation was granted.*
8. St. Albert's College, Ernakulam.	(*a*) Intermediate Part III—Elements of Commerce and Accountancy. (*b*) B.Sc. Part I—English. Part II—Physics and Chemistry (Main Subjects) and Mathematics, Physics, Chemistry and Zoology (Subsidiary Subjects).
9. Alagappa College, Karaikudi.	B.A. Part III—Group (v)—Tamil with Early South Indian History.
10. Osmania College, Kurnool.	B.A. Part III—Chemistry (Subsidiary).
11. Providence Women's College, Kozhikode.	B.A. Part I—English. Part II—Malayalam and Hindi. Part III—Group (iv-b)—Economics and History.
12. Besant Theosophical College, Madanapalle.	B.A. Part II—Hindi.
13. St. Aloysius' College, Mangalore.	B.Com. Part II—Kannada.
14. Government College, Mercara (Coorg).	B.A. Part III—Physics, Chemistry and Botany (Main Subjects) with Mathematics, Physics, Chemistry, Botany and Zoology (Subsidiary Subjects).
15. National College, Tiruchirapalli.	B.Com. Part I—English. Part II—Hindi. Part III—Special Subject : Transport.
16. Sacred Heart College, Tirupattur.	(*a*) Intermediate Part III—Latin (Higher Standard.) (*b*) B.A. Part I—English. Part II—Tamil and Latin. Part III—Group (ii)—Mathematics (Main) with Physics (Subsidiary).

Name of College.	*Courses or subjects in which affiliation was granted.*
17. Islamiah College, Vaniyambadi.	B.A. Part III—Group (i-b)—Mathematics.
18. V.H.N. Senthikumara Nadar College, Virudhunagar.	Intermediate Part III—Tamil (Higher Standard.)
19. P.S.G. Arts College, Peelamedu, Coimbatore.	Intermediate Part III—Tamil (Higher Standard).
20. The Mahajana College, Erode.	Intermediate Part I—English. Part II—Tamil. Part III—Mathematics, Logic, Modern History, Indian History, Ancient History, and Elements of Commerce and Accountancy.
21. Alagappa College for Women, Karaikudi.	Intermediate Part I—English. Part II—Sanskrit, Tamil, Hindi and Malayalam. Part III — Mathematics, Physics, Chemistry, Natural Science, Modern History, Indian History, Logic and Indian Music.
22. The Auxilium College, Katpadi (N. Arcot.)	Intermediate Part I—English. Part II — Tamil, Hindi and French. Part III—Mathematics, Physics, Chemistry, Natural Science, Ancient History, Indian History, Modern History, Logic and Drawing and Painting.

(**Professional**)

23. Madras Medical College, Madras.	Diploma in Radiology.
24. Alagappa Chettiar College of Engineering and Technology, Karaikudi.	B.E.—Mechanical Engineering Branch.
25. Madurai Medical College, Madurai.	M.B. & B.S.

APPENDIX B

Statement of the number of candidates who appeared for and passed the examinations and the number that qualified for the Degrees, Titles, Certificates and Diplomas of the University during the year 1954 :—

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	September	March/July	September	March	Sep.
Arts and Science						
Matriculation ..	1,710	..	394	..	394	..
Intermediate * ..	18,665	9,459	8,176	3,171	†8,081	†2,533
B.A.—Part I ..	4,058	2,129	2,130	841	..	..
B.A.—Part II ..	3,544	745	2,914	605	†1,888	†1,057
B.A.—Part III ..	4,028	989	2,812	439	..	..

† The figures in the last two columns for Intermediate and B.A. indicate the number of candidates who have qualified for the certificate or Diploma by passing the whole examination and those who have completed by passing Part or Parts of the examination.

* Details of number of candidates for the whole examination and under each part :

	Appeared. Mar.	Appeared. Sep.		Passed. Mar.	Passed. Sep.
Whole Examination ...	13,624	1,515		6863	180
			in Part I	2671	468
			in Part II	4,874	861
			in Part III	1,035	67
Part I ..	1,903	4,417		778	1,760
Part II ..	248	1,305		131	884
Part III ..	3,741	4,424		1,042	1,832

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	Sep./Dec.	March/July	Sep./Dec.	March	Sep.
B.Sc.—Part I ..	1,912	826	1,192	547	..	..
B.Sc.—Part II ..	2,021	712	1,077	330	1,043	382
B.A. (Hons.)—Preliminary ..	535	126	395	100	..	..
Do. Final ..	439	..	419+ 19	..	419+ 19*	..
M.A. ..	233	..	191	..	191	..
M.A. in Science Subjects ..	48	..	40	..	40	..
B.Sc. (Hons.)—Part I ..	95	18	77	18	..	..
Do. Part II (Main) ..	130	..	99+ 2*	..	99+ 2*	..
Do. Do. (Subsy.) ..	83	..	83	..	..	..
M.Sc. (by Examination) ..	23	..	21	..	21	..
Teaching						
B.T. (New Regulations) (Written).	850	140	692	67	692	69
B.T. (New Regulations) (Practical).	804	5	799	2	..	..
B.T.—Shortened Course (Written).	34	40	31	35	31	35
B.T.—Shortened Course (Practical).	34	40	34	40	..	..
M.Ed. ..	21	..	8	..	8	..
Law						
F.L. (New Regulations) ..	895	246	505	138	505	138
F.L. (Old Regulations) ..	..	..	..	..	..	..
B.L. (New Regulations) ..	676	301	339	147	339	147
B.L. (Old Regulations) ..	22	..	9	..	9	..
M.L. ..	28	..	4	..	4	..

* Recommended for the respective Pass Degree.

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	Sep./Dec.	March/July	Sep./Dec.	March	Sep.
Medicine						
First M.B. & B.S.—Part I ..	1	1	1	1	..	..
First M.B. & B.S.—Part II ..	217	375	132	168	132	168
Second M.B. & B.S.—Part I ..	176	145	152	117	..	..
Second M.B. & B.S.—Part II ..	216	203	161	139	161	139
Final M.B. & B.S.—Part I ..	158	209	111	133	..	..
Final M.B. & B.S.—Part II ..	279	269	158	97	158	97
M.D. (N.R.) ..	51	..	4	..	4	..
M.S. (N.R.) ..	45	..	2	..	2	..
M.Sc.—Anatomy ..	..	..	..	..	..	..
,, Physiology ..	..	..	..	..	..	..
M.Sc.—Pharmacology ..	..	..	..	..	..	..
,, Pharmacy ..	..	..	..	..	..	..
D.G.O. ..	12	9	9	5	9	5
D.O. ..	9	8	4	6	4	6
D.L.O.—Part I ..	7	3	6	2	..	..
D.L.O.—Part II ..	8	4	7	3	7	3
D.V. ..	..	4	..	4	..	4
B.S.Sc.—Part I ..	..	..	..	..	..	..
B.S.Sc.—Part II ..	1	..	1	..	1	..
B. Pharmacy—Preliminary ..	16	8	6	6	..	..
B. Pharmacy—Final—Part I ..	17	11	6	5	..	..
B. Pharmacy—Final—Part II ..	7	11	3	4	3	4
First B.D.S. ..	14	8	6	4	..	..

Examination.	No. Examined. March/July	No. Examined. Sep./Dec.	No. Passed. March/July	No. Passed. Sep./Dec.	No. qualified for Degree or Title or Diploma or Certificate. March	No. qualified for Degree or Title or Diploma or Certificate. Sep.
Medicine—(*contd.*)						
Inter. Science in Nursing ..	14	..	14	..	14	..
B.Sc. (Nursing) ..	12	2	11	2	11	2
Diploma in Tuberculosis ..	10	3	7	3	7	3
Technology						
B.Sc. (Tech.)—Part I ..	51	..	32	..	..	..
B.Sc. (Tech.)—Part II ..	45	..	34	..	34	..
Engineering						
First B.E. ..	502	197	289	152	..	..
Second B.E. ..	501	214	279	118	..	..
Third B.E. ..	404	168	256	96	..	..
B.E. Final ..	318	91	234	61	234	61
Agriculture						
B.Sc. (Ag.)—First Examn. ..	99	19	78	17	..	..
B.Sc. (Ag.)—Second Examn. ..	93	..	71	..	..	..
B.Sc.—(Ag.) Final Examn. ..	76	..	61	..	61	..
Veterinary Science						
B.V.Sc —Preliminary ..	71	30	40	27	..	..
B.V.Sc.—Intermediate—Part I.	87	72	15	47	..	..
B.V.Sc.—Intermediate—Part II.	72	41	33	29	..	..
B.V.Sc.—Final—(New Regulations).	90	41	47	21	47	21

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	September	March/July	Sep./Dec.	March	Sep.
Commerce						
B.Com.—Part I ..	883	418	594	254	..	..
B.Com.—Part II ..	822	235	577	179	421	241
B.Com.—Part III ..	1,055	432	497	189		
B.Com. (Hons.)—Part I ..	39	11	28	8	..	..
B.Com. (Hons.)—Part II ..	35	..	35	..	35	..
Oriental Learning						
B.O.L.—Part I ..	34	26	16	9	..	..
B.O.L.—Part II ..	58	10	35	6	35	5
B.O.L. (Hons.)—Part II ..	6	..	6	..	6	..
Oriental Titles—						
Preliminary ..	708	..	513	..	..	..
Final ..	507	..	347	..	347	..
Entrance Test to Oriental Title Course.	713	..	406	..	..	..
Entrance Test to Intermediate —Group-D.	200	..	57	..	..	..
Sangita Siromani—Final ..	1	..	1	..	1	..
Certificates and Diplomas						
Certificate in Modern European Languages—						
French ..	17	..	11	..	11	..
German ..	23	..	22	..	22	..

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	Sep./Dec.	March/July	Sep./Dec.	March	Sep.
Certificates and Diplomas— *(contd.)*						
Diploma in Modern European Languages—						
French ..	4	..	4	..	4	..
German ..	19	..	15	..	15	..
Diploma in Economics ..	1	..	1	..	1	..
Diploma in Indian Music ..	6	..	5	..	5	..
Diploma in Politics and Public Administration.	10	..	8	..	8	..
Certificate in Librarianship ..	20	..	18	..	18	..
Diploma in Librarianship ..	19	..	18	..	18	..
Diploma in Statistics ..	10	..	8	..	8	..
Diploma in Journalism—1954 ..	7	1	4	1	4	1
Certificate in Anthropology ..	2	..	1	..	1	..
Diploma in Anthropology ..	3	..	3	..	3	..
Diploma in Physical Education ..	39	..	36	..	36	..
Diploma in Social Service ..	42	..	40	..	40	..
Diploma in Horticulture ..	25	..	24	..	24	..
Total ..	49,875	19,055	28,062	8,393	15,737	5,121

APPENDIX C.

Names of persons who submitted theses during 1953-54 and have been declared qualified for Research Degrees.

Master of Letters.

(M.LITT.).

Revised Regulations.

1. Mr. M. Rangaswami, M.A., for his thesis, "Labour in Organised Industries in Madras State."

2. Mr. K. A. Ramanathan, M.A., for his thesis, "The History of Judicial Administration in Madras under the East India Company from 1640-1861."

3. Sry. A. Visalakshi, M.A., for her thesis, "Economic Planning in India."

Doctor of Philosophy.

(PH.D.)

Revised Regulations.

1. Mr. E. R. B. Shanmugasundaram, M.A., for his thesis, "Inter-relationship among some Vitamins and Amino Acids."

2. Mr. R. Kalyanasundaram, M.A., for his thesis, "Soil conditions and Wilt Diseases in Plants; Fungal Wilts and changes in host Metabolism."

3. Mr. P. Vijayaraghavan, M.Sc., for his thesis, "Studies on Fish Eggs and Larvae of Madras Coast."

4. Mr. C. Krishna Rao, B.V.Sc., M.S., for his thesis, "Studies on Semon stains and the Morphology and development of the Spermatozoa of Farm Animals."

5 Mr. V. S. Venkatasubrahmanyan, M.Sc., for his thesis, " Radioactivity Measurements on Indian Rocks and Minerals and the determination of Geological Time."

6 Mr. H. Srikant, M.Sc., for his thesis, " Adsorption Studies on Industrial Catalysts."

7 Mr. C. S. Vaidyanathan, M.Sc., for his thesis, " Studies on the Enzymatic, Thermal and Photochemical Reactions of amino acids by circular paper chromotographic technique."

8 Mr. V. O. Sebastian, M.Sc., for his thesis, " Studies on an Ascidian of the Madras Coast."

9 Mr. E. G. Silas, M.Sc., for his thesis, " Studies on Systematics, Ecology and Bionomics of Indian Fishes."

10 Mr. R. E. Bedord, M.Sc., for his thesis, " The Theory, Calculation and Performance of the Double Fed Induction Machine."

Old Regulations.

11 Mr. C. T. Krishnamachari, M.A., for his thesis, " On some spatial Representations and their significance for the Problem of Precognition."

12 Mr. E. K. Narayanan, M.Sc., for his thesis, " Bio-chemical activities of V. Cholerae and Related Organisms and their possible role in the Patho-genesis of Cholera Disease."

13 Mr. P. R. Srinivasan, B.Sc., for his thesis, " Protein Metabolism in relation to Growth and Age."

14 Mr. P. D. Varadarajan, M.A., for his thesis, " Soil conditions and Wilt Diseases of Plants with special reference to Trace-element Nutrition."

15 Mr. V. Gopalakrishnan, M.A., for his thesis, " Studies on the Biology of the Madras Pen-neids."

16. Mr. C. S. Venkatram, M.Sc., for his thesis, "Studies on Fusaria of Southern Indian Soils."

17. Mr. V. Sadasiva Ayyar, M.Sc., for his thesis, "The Nutritional and Biochemical Significance of Zinc."

18. Mr. C. T. Peter, M.Sc., for his thesis, "Studies on the Biology of certain Trematodes Parasitic in Domesticated Animals."

M.Sc.

Revised Regulations.

1. Sry. Kamala Daniel, B.Sc. (Hons.), for her thesis, "Scattering of Light."

2. Mr. P. M. Mathews, B.Sc. (Hons.), for his thesis, "On a class of Stochastic Integro-differential Equations."

3. Sry. M. V. Lakshmikantham, B.Sc., for her thesis, "Studies in the Isoquinoline Series."

4. Mr. G. Ramamohan, B.Sc., for his thesis, "Kinetic Investigation of the Reaction between Phenol and Substituted Phenols and Formaldehyde."

5. Sry. P. Shanta, B.Sc., for her thesis, "Trace-element Nutrition of Soil Fungi with special reference to *Fusarium Moniliforme*."

6. Mr. A. George Cherian, B.Sc., for his thesis, "Respiration in Anura".

7. Mr. K. Narayanan, B.Sc. (Hons.), for his thesis, "Magnesite Region-Salem."

8. Mr. A. Jayaraman, B.Sc., for his thesis, "On the Crysto-crystalline Forms of Silica."

9. Mr. T. Sundararamayya, B.Sc. (Hons.), for his thesis, "Some aspects of Archaean Geology," Periakulam Taluk, Madurai District.

M.Sc.—(*contd.*)

10. Mr. S. Ramachandran, B.Sc. (Hons.), for his thesis, "Investigation on the Enzymic Role of Biotin and Inositol."

11. Mr. M. R. Subbaram, B.Sc., for his thesis, "Studies in Nitrogen Ring Compounds."

Old Regulations.

12. Mr. E. R. Divakaran, B.Sc., for his thesis, "Bio-chemistry of Enzymes (A Study of Serum Tributyrinase in health and in certain diseases of the Liver and of the Biliary Tract."

13. Mr. C. V. Ramadas, M.A., for his thesis, "Studies in the Synthesis of Heterocyclic Compounds."

14. Mr. S. Venkataraman, B.Sc., for his thesis, "Studies on the Vapor-liquid Equilibria of some Ternary system."

15. Miss M. Indravati, B.A., for her thesis, "Synthetic Experiments in Heterocyclic Compounds."

16. Mr. U. Ramadas Rao, B.Sc. (Hons.), for his thesis, "1. Action of Amalgams on Organic Compounds. 2. Studies in the Isoquinoline Series and 3. A new Synthesis of Aporphines."

Faculty of Medicine.

17. Sry. A. Sarada, M.B.B.S., for her thesis, "Physiological Studies on Non-adrenaline and related compounds."

18. Mr. V. S. Venkatasubbu, M.B.B.S., for his thesis, "Analeptics—Nikethamide and heptozol. Study of the action on Cardiovascular system in animals and man."

19. Mr. M. Sukumaran, M.B.B.S., for his thesis, "Biochemical Studies in Leprosy."

20. Mr. A. Sitaramamurti, M.B.B.S., for his thesis, "Studies on absorption of certain Monosaccharides in the small intestine of Albino rat."

APPENDIX D.

Reports of work of the Teaching and Research Departments for 1954.

1. DEPARTMENT OF INDIAN ECONOMICS

I. Staff:

Professor:

Sri R. Balakrishna, M.A., Ph.D.(Lond.)

Reader:

Sri C. W. B. Zacharias, M.A. (till 14th April, 1954)

Lecturer:

Sri D. Bright Singh, M.A., Ph.D.

II. General:

The Professor was engaged on three broad lines of work during the year. With a view to publish in book form the articles and essays written by him during the past 10 years, he made a selection and edited them for the Press. The next item of work was a study of the Fundamental Economic Changes in the World during recent years and the adaptation of India to the new economic pattern. The study was incorporated in an address delivered by him as President of the All-India Economic Conference. Next, he made a study of the Recent Trends in Indian Finance and prepared a course of 6 lectures on the subject to be delivered by him under the Sir William Meyer Endowment Lectureship.

He continued to be a member of the Textile Industry Enquiry Committee of the Government of India and helped in the preparation of the Report which was submitted to Government on 15th September, 1954. He was a member of the Research Programmes Committee of the Planning Commission and was also appointed

a member of the All India Boards of Technical Studies in Management of the Government of India.

The Lecturer's main theme of work was a study of the Recent Price Trends in India. He made some progress with it and has proposed to publish a book on the subject.

III. Works and Articles published during the year:

Professor:

1. Studies in Indian Economic Problems (Book published by the Bangalore Press, Bangalore).
2. India in a Changing World Economy—Pamphlet (Printed as Presidential Address for the All-India Economic Conference, 1954).
3. Appraisal of the Indian Plan (Madras University Journal, Humanities, 1954).
4. Rationalization of Industry (Souvenir of the Madras Economic Students Convention, 1954).
5. Nationalization of Industry (Tamil Encyclopaedia, Vol. I)

Reader:

The Effects of the Devaluation of the Rupee on the Indian Economy (Madras University Journal, Humanities, 1954).

Lecturer:

1. Problems of the Motor Transport in India (Indian Journal of Economics, 1954).
2. Price Trends in India, 1939-45 (Madras University Journal, Humanities, 1954).
3. Finance in India (Tamil Encyclopaedia, Vol. I).

IV. Works Completed during the year:

Professor:

1. Five Chapters of his book on 'Recent Trends in Indian Finance.'
2. ECAFE and the Economic Development of South-East Asia (prepared in collaboration with the Lecturer)—To be published in the Indian Year Book of International Affairs, Vol. III, University of Madras.

Lecturer:

1. Two Chapters of his book 'Recent Price Trends in India.'
2. Post-War Price Trends in India (To be published in the Madras University Journal, Humanities, 1955).
3. India's Five Year Plan (To be published in the Tamil Encyclopaedia, Vol. II)

V. Topics on which Research Work is in progress:

Professor:

Finance of Planning (last Chapter of his book on 'Recent Trends in Indian Finance')

Lecturer :

Study of the Price Trends in India since 1939.

VI. Research Student:

Five Research Students submitted their theses for the M.Litt. during the year. The theses of 2 of them were approved and they have taken the second part and one has been declared qualified for the Degree. In the case of two others, the approval of the theses is awaited. The thesis of one of the candidates was turned down.

The following are the titles of the 5 theses submitted for the M.Litt. Degree during the year :—

1. Operations of the Reserve Bank of India.
2. Production and Marketing of the Principal Crops in India.
3. Industrial Finance in India.
4. Consumers' Co-operation in Madras State.
5. Industrial Welfare in Organised Industries in Madras State since 1940.

Theses 3 and 4 have been approved while the result of 1 and 5 is awaited.

Of the four stipendiary students in the Department, the term of two students terminated during the year. The remaining two students, whose term was extended for a second year, are working on the following subjects :—

1. The Economic and Financial Conditions of the Residual State of Madras.
2. Sugar Industry in India.

During the year two probationary students joined the Department. They are working on the following subjects :—

1. The Problem of Under-Developed Areas.
2. Tax Incentives to Industries in India.

Of the three non-stipendiary students in the Department, two completed their work during the year and the other is continuing in the Department. He is working on the Land Reform Movement in India.

VII. Diploma Courses and other lectures:

In the Diploma Course in Economics there are 11 students in the I year and 4 in the IInd year. Of the 3 students who applied for the Diploma in Economics

Examination in July 1954, one passed, the other two not taking the examination.

The Lecturer delivered 3 lectures a week to the Diploma classes in Economics and in Politics and Public Administration. Sri S. Velayudham, Professor, Presidency College, delivered 3 lectures a week to the students undergoing the Diploma courses from the middle of August on a part-time basis.

The Professor delivered two lectures a week to the B.Sc. (Tech.) students at the Alagappa Chettiar College, Guindy. He delivered a course of 8 special lectures to the Diploma Class in Journalism. He delivered a course of two Inter-Collegiate lectures on 'Economic Planning in India.' The Lecturer delivered two Inter-Collegiate lectures on 'Inflation.'

The Reader, Sri C. W. B. Zacharias, delivered two lectures a week to the Diploma classes till the end of March 1954.

VIII. Other Information:

The Professor prepared a scheme for an enquiry into the condition of the handloom weavers in the Madras State for submission to the Government of India. He attended the meetings of the Textile Enquiry Committee in connection with the final preparation of the Report. He also attended the meetings of the Research Programmes Committee of the Planning Commission. He was elected President of the All-India Economic Conference, 1954. He was also in charge of the Journalism classes during the year. He acted as Honorary Director of the Agro-Economic Research Unit and the Unit for the Economic Survey of the Madras City.

IX. Research Units of the Government of India

1. Agro-Economic Research Unit:

This Unit was started as a part of the Economics Department with a recurring grant of Rs. 30,000 in the

first year and Rs. 45,000 in the subsequent years from the Ministry of Food and Agriculture, Government of India. It started functioning from 15th April, 1954. The Professor is functioning as its ex-officio Honorary Director. Sri C. W. B. Zacharias, the former Reader in the Department, was appointed as its Deputy Director. The Unit commenced with a staff of 1 Senior Research Investigator, 3 Junior Research Investigators and a Clerk and a Peon. During the year 6 reports were prepared by the Unit and 5 of them were submitted to the Ministry of Food and Agriculture and the 6th has been sent to the Indian Agricultural Economic Conference. An important feature of the work of the Unit is to conduct economic surveys of selected villages. Three Investigators have been engaged in that work in South Arcot, Quilon and Mysore. Regular returns are sent by them for scrutiny by the office staff. Three *ad hoc* studies concerning agricultural policy prescribed by the Ministry are in progress, besides others undertaken on the initiative of the University.

2. Studies in the Economics of Farm Management:

The Research Programmes Committee of the Planning Commission has entrusted the Agro-Economic Research Unit also with the study of Farm Management in the Districts of Salem and Coimbatore. Towards this work, a special grant of Rs. 80,000 per year has been sanctioned. The Studies are conducted under two methods, *viz.*, the cost accounting method and the survey method. The survey method is conducted in 20 villages, 10 in Coimbatore and 10 in Salem and the cost accounting method is also conducted in 20 other villages but 4 of the villages in each district is common to both methods for purposes of comparison. The total staff employed for the purpose is 40, out of which 28 are in the mofussil and 12 are at the Head Office. Among them 1 Officer, 4 Upper Subordinates and 16 Fieldsmen have been secured from the Agricultural

Department of the Government of Madras. The rest were appointed directly by the University.

The work of collecting data commenced from the agricultural year beginning in July. Returns are being received regularly from the field staff and the work of scrutiny and compilation is going on at the headquarters.

3. Research Unit for the Economic Survey of Madras:

A special Unit for the Economic Survey of Madras under the scheme of metropolitan city surveys sponsored by the Research Programmes Committees of the Planning Commission was constituted as part of the Economics Department and it commenced work on 15th April, 1954. The project is likely to extend over a period of 4½ years and the total grant for the purpose is Rs. 2,44,100. The Professor is the Honorary Director. The Unit consists of a special staff of 1 Deputy Director, 3 Supervisors, 2 Tabulators, 8 Investigators, 1 Clerk and 1 Peon. The object of the Survey is to assess the causes and consequences of urbanization, employment and migration. A sample survey of 14,000 households, which is 5% of the total in the City, will be made for the purpose. The City is divided into 4 zones for the convenience of the Survey and the first zone will be covered by the end of the year. Interim reports are being sent to the Planning Commission. An Additional piece of work entrusted to the Unit is a survey of the present "Employment Situation" in the organised sector in the City. This is nearing completion and a report will be submitted in January 1955.

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2. DEPARTMENT OF INDIAN HISTORY AND ARCHAEOLOGY

I. Staff:

Professor:

Sri K. Kanakasabhapathy Pillay, M.A., L.T., D.Litt., D. Phil. (Oxon.)

Reader:

Sri T. V. Mahalingam, M.A., D.Litt.

Lecturer:

Sri M. Arokiaswami, M.A., Ph.D.

Dr. Kanakasabhapathy Pillay, who was appointed Professor of Indain History and Archaeology assumed office on the 11th September 1954.

II. Topics on which Research is in Progress:

The Professor has submitted for approval his programme of work for the quinquennium 1954-59. This comprises a book on 'The Social History of the Tamils (600 A.D.—1500 A.D.) and another book on the History of the Pandyas.

Reader: (i) The printing of South Indian Polity is over and awaits publication.

(ii) The draft of the first four chapters of his book on the History of South India from 1565 to 1803 has been completed.

(iii) He had to suspend his further work on the History of South India from 1565 to 1803 as he was asked to give priority to the scrutiny of the summary of the Mackenzie manuscripts and get them ready for the press by April 1955. The summaries of the Tamil and Malayalam sections of the Mackenzie manuscripts (comprising 89 mss.) prepared in the Department were examined with a view to sending them to the Press.

Lecturer :

(i) He completed his work on the Kongu country. It has been sanctioned for publication by the University.

(ii) He commenced collection of materials for his book on South India during the Sangam Age.

III. Works published during the year:

Reader:

Papers published

1. Sanskrit studies in South India (Journal of Oriental Research).
2. The grant of Madraspatam to the English East India Co. (Indian Year Book of International Affairs).
3. The end of the Madura Nayakship (Indica—The Indian Historical Research Institute Silver Jubilee Commemoration Volume).
4. An Eastern Ganga invasion of the Tamil Country (Preceedings of the Indian History Congress, 1952).

Lecturer:

Papers published

1. Cholan Purvapattayam (Journal of Indian History).
2. Adigaman of Tagadur (Journal of Indian History).
3. Origin of castes in South India (Tamil culture).
4. Antiquity of Mysore (Quarterly Journal of the Mythic Society).
5. The cult of Mariammal (Tamil culture).
6. Viraraya Chakravarti (Indica—The Indian Historical Research Institute Silver Jubilee Commemoration Volume).

IV. Research students, etc.:

There were on the whole 7 research students in the year including stipendiary 4, non-stipendiary 2, and probationary 1. The subjects they were working on were:—

1. Economic background of English settlements in India in the 17th century.

2. History of Sri Sailam Temple.
3. Some Minor Dynasties of Rayalaseema.
4. Madura through the Ages.
5. Jainism in South India.
6. The Early History of the Madras Region upto 1650.
7. The East India Company in the Carnatic, 1687 - 1744.

V. Diploma courses, etc. :

The Professor delivered 3 lectures on 'The Social Reform Movements of the 19th century in India' to the Honours and Post-graduate students under the Inter-Collegiate scheme, six lectures on 'Modern Constitutions' and 6 lectures on 'The Constitutional History of India since 1858' to the students of the Diploma course in Journalism. The Reader delivered lectures on South Indian History to the Language Honours and History Honours students under the Inter-Collegiate scheme and also on Modern Indian Administration to the students of the Diploma Course in Politics and Public Administration.

The Lecturer delivered lectures to Honours students in Islamic History on Mughal Administration and Bahmani Kingdom.

VI. Conferences, etc. :

The Professor and the Reader were deputed by the University as delegates to the 17th Session of the Indian History Congress at Ahmedabad in December 1954. The Professor attended the Conference and read a paper on 'The Origin and development of the Marumakkattayam in Kerala'. The Reader contributed a paper on 'Haidar Ali and Tiruchirappalli (1781)'. He could not attend the Congress.

3. DEPARTMENT OF POLITICS AND PUBLIC ADMINISTRATION

I. Staff :

Reader :

Sri R. Bhaskaran, M.A.

Part-time Lecturer in Accountancy :

Sri R. Dayanidhi Reddi, B.A., G.D.A., L.T.

II. Topics on which research is undertaken now :

Research students :

1. Political trends as reflected in Tamil periodicals.
2. Unions and Associations of Government Employees.
3. Origin and growth of political Parties in Madras.

Reader :

4. Rural Local Government in India since 1947.
5. Social and political ideas of Tamil writers (as part of Hindu Political theory).
6. Development of Indian Constitution since 1950.

III. Works completed during the year :

Reader :

1. Survey of rural local Government in India.
2. Documents on the Indian Constitution.
3. Study of secondary works on Indian Government during the last 50 years.

Research students :

4. Jail Administration in Madras.
5. Welfare administration in Madras.

Papers prepared by the Reader during the year and sent for publication:

1. A complete survey of rural local Government in India for the UNESCO report on Local Government in three countries.

2. Hindu ideas of International Relations (Indian Year Book of International Affairs.)

3. Methods of Study in Political Science as reviewed from the performance of candidates at examinations.

4. The problem of veto in the revision of the U. N. Charter.

Two research students (one of them stipendiary) who completed their work during the year have completed their theses and will be submitting them in January next.

V. Diploma classes:

(a) At the Diploma examination held in July 1954, 17 candidates were registered ; 10 appeared and 8 passed 1 with distinction. The strength of the Senior class in July 1954, was 11. 33 students joined the Junior class.

(b) The Reader delivered 4 lectures a week on Politics and Public Administration to the two Diploma classes during the year and a course of 12 lectures to Diploma students in Journalism.

VI. Conferences:

The Reader submitted two papers to the Indian Political Science Conference held in December at Muzaffarpur.

4. DEPARTMENT OF GEOGRAPHY

I. Staff:

Professor :

Sri George Kuriyan, B.A., B.Sc., Ph.D. (London).

Senior Lecturer :

Sri V. L. S. Prakasa Rao, M.A., D.Phil.

II. General:

Dr. George Kuriyan was in charge of the Department till the 1st May, 1954, when he went on study leave for four months in continuation of the Summer Vacation. Dr. V. L. S. Prakasa Rao was in charge of the Department during the period of the Professor's absence from India.

Dr. George Kuriyan was out of India from the 9th December, 1953, to the 8th January, 1954, to attend the meetings of the General Assembly of the International Social Sciences Council of the UNESCO at Paris. He also took part in the Annual Meetings of the Institute of British Geographers at the University of North Staffordshire, Stoke-on-Trent, and the Le Play Society at Oxford.

Dr. George Kuriyan is the only representative of all the Asiatic countries on the Executive Committee of the International Geographical Union and is one of the Vice-Presidents of the Union, having been elected in 1952, for a second term of four years.

He left India on the 1st May, 1954, to attend the meetings of the Executive Committee of the International Geographical Union at London on the 5th, 6th and 7th May, 1954. He was also invited by the University of Oxford, University of Nottingham, the London School of Economics, and the University College,

London, to deliver a course of three lectures each on the following topics :—

1. The population and food problems of India.
2. Industrial Potential and Development in India.
3. The Problem of Partition.

The Society of Visiting Scientists of Great Britain, availed of the opportunity of the presence of the members of the Executive Committee of the International Geographical Union at London and at their special request, a discussion was held at the Society's premises on the 6th May, 1954, on " World Population and Resources " in which Professor George B. Cressey, Prof. H.O. Reilley Sternberg, Prof. Dudley Stamp and Professor George Kuriyan participated. A short resume of the proceedings was published in the Bulletin of the Society and in " Nature."

From the 1st June till the end of October, he worked in the American Geographical Society as a Research Consultant on " A Handbook of India."

III. Teaching:

The B.A. (Honours), B.Sc. (Honours) and Post-graduate classes in Geography were conducted on a co-operative basis, the Queen Mary's College, the Presidency College and the University Department of Geography being the three participating units. In July 1954, twelve students were admitted to the III Honours and two for the Post-graduate courses, and they were assigned as follows :—

III Honours:	Presidency College	4
"	Queen Mary's College	8
Post-graduate Course :		
	Presidency College	2

In addition to the administrative work, the Professor has teaching work for about 15-17 hours a week. He is

giving guidance for the Final Honours and Post-graduate students for the preparation of their dissertations and field work reports.

IV. Supervision:

He is guiding the Research work of the Non-stipendiary research student, Miss Syeda Usha, who joined the Department in September 1954.

Mr. W. H. Wake, Assistant Professor of Geography, University of California, Los Angeles and Fulbright Scholar, is working on " Transport in Madhya Pradesh " under the general guidance and supervision of the Professor.

V. Senior Lecturer:

Dr. V. L. S. Prakasa Rao, the Senior Lecturer, was doing some of the work done by Dr. George Kuriyan when he was on leave. He has 12-13 hours of lecture work a week. He has also been assisting the Professor in giving guidance to the Honours and Post-graduate students for the preparation of their Dissertations and field work reports.

He attended the Indian Science Congress held at Hyderabad during the first week of January 1954, and read a paper on ' Location of Capitals.'

The Senior Lecturer went to Cheedigummala Village, Narasapatam Taluk, Vizagapatam District, and completed the field work on land use.

He continued to be the Secretary of the Indian Geographical Society and Editor of the Indian Geographical Journal.

VI. Work in Progress.

Professor:

1. The Development of Irrigation and Hydro-Electric Power in India, since Independence.

2. The Million Cities of India.

3. Geography and Religion.

Senior Lecturer:

1. Transport Patterns in India.

2. Distribution of Population in Andhra Desa.

3. Analysis of the land-use data collected at Cheedigummala Village.

4. Natural Regions of India—A symposium for the Indian Science Congress, Baroda Session, 1955.

VII. Publications :

Professor:

1. 'India's Population—Focus, Vol. 5, No. 2, October 1954.

2. India's Population and Resources—Nature, June 26, 1954, p. 1218.

3. A Chapter on India, Pakistan and Ceylon—In World Political Geography—edited by G. Etzel Pearcy (In Press).

Senior Lecturer:

Location of Capitals (Indian Science Congress, 1954, Abstract of papers).

VIII. Research Students :

One non-stipendiary research student is working on " The Regional Geography of Hyderabad State."

Mr. W. H. Wake, Fulbright Research Scholar is working on " Transport in Madhya Pradesh."

5. DEPARTMENT OF INDIAN PHILOSOPHY

I. Staff:

Professor :

Sri T. M. P. Mahadevan, M.A., Ph.D.

II. Topics on which research is in progress:

A study of early post-Sankara Advaita with special reference to Suresvara.

III. Papers published:

1. Western Civilization and Vedantic Culture (Comprendre, Review of the Society of European Culture, Venice, Italy).
2. Section on Saivism in the History and Culture of the Indian People, Volume III (Bharatiya Vidya Bhavan, Bombay).
3. India's Policy on Non-Alignment (The Indian Year Book of International Affairs, 1953).

IV. Number of Research Fellows and Students:

There were on the whole two Research Fellows and seven Research Students during the year. Out of them, two were Stipendiary Research Fellows and two Research Students. The rest of them worked on a non-stipendiary basis. One of the Research Fellows has completed her term of two years and submitted a report on her study of the Conception of Mind in Indian Philosophy. The other Fellow joined the Department on 6th September, and is making a study of Advaita Epistemology. Of the two stipendiary research students, one is working on the Ethical Philosophy of Mahatma Gandhi, while the other is engaged in making a critical study of Scepticism.

Mr. John Frederik Staal from Holland joined the Department as a Government of India Scholar on 28th August, 1954, and is engaged in a special study of Neo-Platonism and Vedanta.

V. Lecture Classes:

The Professor has been taking the Inter-Collegiate classes in Indian Philosophy, every Tuesday, for the Honours and Post-graduate Students of Madras Christian College, Pachaiyappa's College and Vivekananda College.

VI. Other Information:

The lectures on Saiva Siddhanta delivered at Allahabad and Banaras Hindu Universities in December 1953, will be published by the Annamalai University.

The Professor attended the 29th Session of the Indian Philosophical Congress held at Peradeniya, Ceylon, as a delegate of the University.

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6. DEPARTMENT OF PSYCHOLOGY

I. Staff:

Professor:

Sri G. D. Boaz, M.A., D.Phil. (Oxon.)

Senior Lecturer:

Sri T. E. Shanmugam, M.A., M.Litt.

II. General:

Professor:

Dr. G. D. Boaz was the Professor and Head of the Department during the period under report.

Attended the meetings of the Committee and scrutinised articles for the Tamil Encyclopaedia.

Teaching:

M.Ed. Degree Course: Has two afternoon sessions a week (lecturing work) for the M.Ed. students on Advanced Educational Psychology.

B.A. (Honours): Has two hours of lecturing work for the students on "Schools of Psychology" and on "Abnormal Psychology."

Study Seminar:

Two to three hours a week for the research students and staff.

Supervision:

M.Ed.	Thesis	Three.
M.Litt	Thesis	Four.
Ph.D.	Thesis	Two.

Tamil Encyclopaedia :

Contributed seven articles to Tamil Encyclopaedia.

III. Topics on which Research is in progress :

1. Standardisation of Aptitude Tests for some Professional Courses.
2. Collecting material for a book on "Abnormal Psychology."
3. Collecting and interpreting data for the TAT.
4. Standardising Intelligence Tests for age group 8 to 13—work started in November 1954, under the Government of India grant.

IV. Research Students :

There are two Non-stipendiary Research Students, one Research Fellow and one Government of India Scholarship holder in the Department at present. Three M.Ed. students are preparing their thesis for the M.Ed. Degree. One stipendiary research student completed his studentship in August 1954. One non-stipendiary research student completed his term of research and left the department in October 1954. One non-stipendiary research student, left the department in September 1954.

VI. Subjects of Research:

Problems of Vocational Guidance.

Studies in bringing up of children.

Some problems of adjustment and mal-adjustment in Criminals.

Mother-Child Relationships.

Personality studies with respect of the Inmates in the Vigilance and Rescue Homes in Madras.

Iconography of some Temples in Madras.

Psychological Symbolism in Marriage and other related ceremonies in South India.

Social Developments of Children from ages 5-10.

The Professor attended the Indian Science Congress held at Hyderabad during the first week of January 1954.

VII. Senior Lecturer:

He has three hours of practical classes for the M.Ed. students per week, and two to three hours of Seminar classes per week.

He is working on the TAT and has completed practical tests. He is finalising his scheme to print a new TAT to be used in South India in Collaboration with the Professor of Psychology.

Supervised the M.Ed. Theses of three students.

Contributed two articles and scrutinised a number of articles for the Tamil Encyclopaedia.

VIII. Topics on which Research was completed and published:

1. Characteristics of Adolescent Boys Fantasies (JMU, Humanities, July 1954).
2. A Report of the analysis of Responses to the Personality Inventory of Boys from Low Socio-Economic families.
3. The period of Adolescence—A Paper to be presented to the Indian Philosophy Con-

ference—Psychology Section—to be held in Ceylon in December 1954.

IX. Topics on which Research is in progress:

1. Frustration and Anxiety.
2. Symptoms and Syndromes of Emotional Instability in Adolescents.
3. Reaction Time and Emotional Instability.
4. Collecting materials for standardising a scoring scheme for "Group Projection Test."

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7. DEPARTMENT OF MATHEMATICS

I. Staff:

Reader:

Sri V. S. Krishnan, M.A., M.Sc., B.T., D.Sc.(Paris)

Senior Lecturer:

Sri M. Venkataraman, M.A., Ph.D.

II. Topics on which Research is in progress:

Modern Algebra and Lattice Theory, Topology of Metric, of Linear and of Uniform Spaces, Algebraic Topology, Structure Theory.

III. Works published and Works completed:

A Senior Fellow of the Government of India has published papers on 'A Characterisation of $\lesseqgtr \Delta$-rings' and 'A Characterisation of Complete Boolean Algebras.' He has sent a paper for publication on 'Complete Lattices and a Problem of Birkhoff and Frink.'

The Reader has got a paper ready for publication on 'Asymmetric Semi-uniform Structures and Symmetrisation' and an abstract of the same was read at the Conference of the Indian Mathematical Society in Hyderabad in December.

IV. Research Fellows and Research Students:

Two Senior Research Fellows and one Junior Fellow of the Government of India were working on topics in Lattice Theory, Uniconvergence Spaces, and Number Theory. A University scholar working on Linear Spaces finished his second year term of scholarship and continued as a non-stipendiary student. A new non-stipendiary student and two probationary research students have joined in August and are studying papers on 'Local Rings', 'Boundedness in Spaces,' 'Ideal Theory.'

V. Classes and Lectures:

The Reader and Senior Lecturer delivered lectures on 'Representation of Structures' during the III term for the M.Sc. class of 12 students who took their M.Sc. Examination in May 1954. Of these 4 passed in the I Class, 6 in the II Class and two failed. For the new M.Sc. class of 18 from August 1954, the Reader and Senior Lecturer gave lectures on 'Groups and Lattices' and 'Topology' during the I and II terms and the Rev. C. Racine, S.J., Professor, Loyola College, gave lectures on 'Rings and Fields' for the II term. The Reader gave also a course of 7 lectures on 'Uniform Convergence' under the scheme of Inter-Collegiate lectures for final Honours and Post-graduate classes in July and August. The Senior Lecturer gave lectures to the Diploma classes in Statistics. For the benefit of research students, the Reader gave courses of lectures on 'Number Theory,' 'Convergence and Ecart,' 'Algebraic Topology,' and 'Ideal Theory,' while the Senior Lecturer gave lecture courses on 'Dimension Theory,' 'Measure Theory and Probability' and 'Differential Geometry.'

VI. Other Information:

The Reader and Senior Lecturer are both among the reviewers for the 'Zentralbatt fur Mathamatik.'

The Reader, Senior Lecturer and two research students attended the Conference of the Indian Mathematical Society at Hyderabad in December.

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8. DEPARTMENT OF STATISTICS

I. Staff:

Reader :

Sri D. V. Rajalakshman, M.A., M.Sc., Ph.D. (Manchester), F.S.S., Dip. Econ.

Lecturer :

Sri G. S. Lingappiah, M.Sc.

Consequent on the reorganisation of the Departmental Libraries, the Reader handed over the work entrusted to him as Honorary Librarian, Departmental Libraries, to the Librarian, University Library.

II. Topics on which Research is in progress:

The work during this year related to all the general topics given in the quinquennial programme. The studies have been on some aspects of stochastic processes and distribution of statistics from non-normal populations. The theoretical results are applied to artificial series and to observational data. One sample investigation has been completed and two others are in progress. The specific topics on which work is in progress are :—

1. Study of population divided into a finite number of classes.
2. Tests to discriminate between some forms of stochastic processes.
3. Stochastic models with time-trending co-efficients.
4. Distribution of statistics from non-normal universe.

5. Some Demographic Studies.
6. Application of runs in controlling production processes.
7. Sample investigation into some aspects of socio-economic conditions of owners of motor cars.

III. Works completed and Works published:

1. Theses on—
   (i) Some aspects of statistical inference.
   (ii) Specifications of simple stochastic models with time-trending co-efficients.
   (iii) Correlation problems in non-normal populations been has completed for the M.Sc. Degree.

2. Works on—
   (i) Specification of a non-linear model for auto-regressive schemes,
   (ii) Partial cumulative frequency functions,
   (iii) Some results in composite hypothesis, and
   (iv) Vital Statistics

   have been completed and prepared for publication.

3. The results of sample survey of college students is being analysed for preparing a report.

Work published:

Simple Stochastic model with time-trending co-efficients.

IV. Research Scholars:

1. Two Government of India Scholars, one Senior and one Junior, continued work and the nature of their work is covered in topics 1 and 2 of item II above.

2. One research student of the University also continued to work and the nature of his work is given in topic 3 of Item II above.
3. One research scholar working for the M.Sc. Degree has been added since August and he is continuing on topic 4 in Item II above.

All the research scholars are working under the guidance and supervision of the Reader.

V. Lecture Classes:

Under the Inter-Collegiate Scheme, the Reader gave a course of lectures on 'Analysis of Stationary Time-Series' for final Honours students in Statistics.

Sample surveys introduced as a part of the work of the Department are used to provide some scope for the Diploma students in Statistics to have practical experience in field work. The survey given in topic 7 of item II is in progress. The Lecturer is assisting the Reader in organising and conducting these surveys. Of a total of five hours of teaching for the Diploma classes, one is taken by the Reader and four by the Lecturer. An additional hour is provided every week for practicals.

There are 35 students in the I year and 25 in the II year of the Diploma Course in Statistics. Of the 7 students that took the Diploma Examination held in July 1954, 6 were declared qualified to receive the Diploma, one with a distinction.

VI. General:

The Reader, as a delegate of the University, attended the 42nd Session of the Indian Science Congress and took part in different symposia. He also rendered the necessary help in the analysis and interpretation of experimental data to research workers of different Science and Art sections.

9. DEPARTMENT OF PHYSICS

I. Staff:

Professor:

Sri G. N. Ramachandran, M.A., M.Sc., Ph.D., D.Sc., A.I.I.Sc., F.A.Sc.

Reader:

Sri A. Ramakrishnan, M.A., Ph.D.

Research Assistant:

Sri K. S. Chandrasekharan, M.Sc.

II. General:

The process of equipping the laboratory had gone well enough for the M.Sc. (by examination) course to be started in July 1954. Two special subjects are being offered (a) X-rays and Crystallography, and (b) Statistical Mechanics in addition to general courses on classical mechanics, wave-mechanics and relativity theory. 8 students are taking this course, four in each section. In addition, there are 9 Research Workers in the Department. A scheme of investigation has been sanctioned for the Department by the C.S.I.R. on "X-ray and Optical studies on Collagen."

The Professor acted, in an honorary capacity as Editor of the Journal "Current Science." The Reader visited some of the Universities in Australia in the middle of the year.

III. Research Work:

(*a*) The Reader and his students are engaged in theoretical studies on statistical problems related to physics and astrophysics.

(*b*) The interaction of X-rays with crystals leading to an "Internal reflection" was investigated theoretically with the idea of evaluating the

integrated values for the reflection and anti-reflection (G. N. Ramachandran). The results are being verified experimentally in the Laboratory.

(*c*) A structure has been worked out for the Collagen group of proteins, which is in reasonable agreement with the various physical and chemical properties, such as infra-red absorbtion, X-ray diffraction, chemical composition thermal contraction and stereo-chemistry. This structure has been published in "Nature" (G. N. Ramachandran and G. Kartha). Further X-ray studies made on stretched collagen have led to a more detailed understanding of the elements of collagen helix and has led to a small revision of the above structure. (G. N. Ramachandran and G. K. Ambady).

(*d*) The unit cell and space group of the interesting anti-biotic morellin, have been worked out (G. Kartha).

(*e*) A technique, which is likely to prove very useful generally in crystal structure analysis, has been developed on the basis of the so-called Difference-Patterson diagram. Its utility has been checked with two known structure determinations (G. Kartha and G. N. Ramachandran). Attempts are being made to apply it to an unknown case.

(*f*) All the elements of the thermal expansion tensor of potassium chlorate have been measured from 30° to 200° C. The measurements show that the O_3 groups are primarily responsible for the large expansion in certain directions (M. A. Lonappan). Experiments

are being continued with other crystals having an O_3 group, such as HBO_3 and KNO_3.

The structure of the amino-acid, aspartic acid, is being worked out and is nearing completion (V. Amirthalingam).

Using a Geiger-counter spectrometer and a polarising monochromator, the theory of the reflections of polarised X-rays by crystals is being verified (K.S. Chandrasekharan).

IV. Publications :

The following papers were published during the year 1954 :

1. X-ray anti-reflections in Crystals, Part II, by G.N. Ramachandran. Proc. Ind. Acad. Sci. A 1954, **39**, 65.
2. Investigation of the Degree of perfection of a crystal by means of polarized X-rays by G.N. Ramachandran and S. Ramaseshan. Proc. Ind. Acad. Sci. A 1954, **39**, 20.
3. Structure of Collagen by G. N. Ramachandran and G. Kartha. Nature 1954, **174**, 269.
4. Unit Cell and Space-group of Morellin. By G. Kartha. Curr. Sci. 1954, **23**, 226.
5. Unit Cell and Space-group of Morellin. By G. Kartha and others. Curr. Sci. 1954, **23**, 246.
6. Studies on the fluctuation problem of electron photon cascades. By P.M. Mathews. Prog. Th. Phys. 1954, **11**, 95.
7. Solutions of an Integral equation of Chandrasekhar and Munch. By P.M. Mathews. Ap. J. 1954, **119**, 81.

8. A stochastic model of fluctuating density field, I. By A. Ramakrishnan. Ap.J. 1954, **119**, 443.

9. A Stochastic model of fluctuating density field, II. By A. Ramakrishnan. Ap.J. 1954, **119**, 682.

10. Elements of the helical structure of Collagen by G.N. Ramachandran and G.K. Ambady. Curr. Sci. 1954, **23**, 349.

The following papers are in Press or in the course of publication :

1. Application of the Difference-Patterson technique in Structure analysis by G. Kartha and G.N. Ramachandran. Acta Crystallographica (1954).

2. Thermal expansion of potassium chlorate. By M.A. Lonappan. Proc. Phys. Soc. (1954).

3. Two simple stochastic models of a nuclear cascade by S. K. Srinivasan. Prog.Th. Phys. (1954).

4. Fluctuations in the number of photons in an electron photon cascade by S. K. Srinivasan. Prog.Th. Phys. (1954).

5. On stellar statistics by A. Ramakrishnan. Ap. J. (1954).

6. On the molecular distribution functions of an one-dimensional fluid-I. By A. Ramakrishnan. Phil. Mag. (1954).

7. On the molecular distribution functions of an one-dimensional fluid-II. By P. M. Mathews. Phil. Mag. (1954).

8. Counters with random dead time. By A. Ramakrishnan. Phil. Mag. (1954).

V. Research Workers :

Experimental

University Fellow	1
University Students	4
C.S.I.R. Res. Assistant	1
Non-Stipendiary	1
Theoretical	
I.C.I. Fellow	1
University Student	1

One student qualified for the M.Sc. Degree during the year.

The topics of research by the students were as follows :

1. Studies on collagen by X-ray and other methods.
2. Structure of biomolecular compounds.
3. Structure of aspartic acid.
4. Thermal expansion of crystals.
5. Application of Geiger-Counter technique to structure work.
6. Theoretical investigations on stochastic processes.

VI. Lectures:

The professor delivered 4 lectures per week and took practical classes for 8 hours a week, while the Reader delivered 4 lectures a week to the M.Sc. course Students in addition, monthly seminars were held reviewing the progress of work in the Department and also on topics of interest to the research workers.

The professor also delivered a course of Inter-collegiate lectures on " Infra-red and Raman Spectra," while the topic dealt with by the Reader was " Differential Equations."

10. DEPARTMENT OF CHEMISTRY

(a) Organic Chemistry.

I. Staff:

Professor :

Sri K.N. Menon, M.Sc., Ph.D., A.R.I.C., A.I.I.Sc., F.A.Sc.

Reader:

Sri S. Swaminathan, B.Sc. (Hons.), Ph.D., A.I.I.Sc.

Research Assistant:

Sri V. Nagarajan, B.Sc. (Hons.)

II. Topics on which Research is in progress:

1. *The Isoquinoline Group* :

Dihydroisoquinolines can be synthesised by standard methods. The addition of acid amides to safrole and eugenol followed by ring closure to yield 3-methyl isoquinolines is under investigation. Parallel with this, the condensation of alpha-methyl-beta-phenyl ethylamines, obtained in quantitative yield by the lithium aluminium hydride reduction of the nitro-styrene, with acid chlorides followed by ring closure, is in progress.

2. *The Aporphine Group* :

Arising from the work on isoquinolines, a systematic investigation on the synthesis of 16-alkyl substituted aporphines is in progress.

3. *The Indole Group* :

A series substituted indoles are required for synthesis of analogues of Harmala alkaloids. Their preparation from 6-β dinitrostyrenes and their conversion to 3-aminoethyl indoles are being investigated.

Synthesis of some homologues of tryptophane has been taken up as another line of investigation under this group.

4. *Steroids:*

Investigation is on hand to improve the method for the preparation of 1-acetyl-6-oxo-8a-methyl-3, 4, 6, 7, 8, 8a-hexahydronaphthalene, a potential intermediate for synthesis of 11-oxygenated steroids.

Synthesis and reactions of 1, 3-cyclopentanedione and its 2-alkyl derivatives is another project under investigation.

5. *Optical Isomerism* :

Arising from certain theoretical considerations, the possibility of resolving carboxy-methoximes of certain cycloalkanones is being investigated.

6. *Longifolene* :

This is a sesquiterpene available as a by-product of Indian Turpentine Industry. Its economic utilisation is somewhat of an urgent call. This aspect can be attempted with profit only if we solve the question of the constitution of this hydrocarbon. Selenium dioxide oxidation and chromic acid oxidation have yielded solid primary degradation products and the breakdown of these to simpler molecules have been achieved. The investigation of these degradation products is engaging attention.

7. *Isostrychnine* :

The strychnine molecule undergoes isomerisation, involving the opening of the oxide-bridge and formation of a hydroxy compound containing one more ethylenic linkage. This should be amenable to oxidative degradation to yield a less complex molecule. This aspect of the work, at present an academic question, is in progress.

8. *The Quinazoline Group* :

The interest in this group is to prepare analogues of papaverine. The bottle-neck in this problem is to

prepare ortho-amino-substituted hydrobenzoins. Partial success has been obtained along some lines and this has indicated a possible line of approach to give a solution, namely, starting from phthalimido-anthranilic acid. Work on this line is in progress.

9. *Vegetable Drugs* :

The Department has programmed to undertake systematic investigation of the vegetable drug wealth of South India. The ripe fruits of " Alstonia Venenatus, Brown " is reputed as a remedy for epilepsy. Preliminary investigation has yielded an alkaloidal like substance, a phenol, besides an oil. Work is in progress to accumulate enough of these products to pursue systematic investigation on the constitution of these substances.

III. (a) Works Published:

Since the last report the following papers were published :

(1) Analysis and characterisation of the Oil from the Seeds of Thespesia Populnea - M.R. Subbaram, Proceedings of the Indian Academy of Sciences, 1954, **39**, 301.

(2) Heterocyclic Compounds, Part II - Synthesis of 4 Quinazolones with Substituents in 2 and 3 positions - M. R. Subbaram, Proceedings of the Indian Academy of Sciences 1954, **40**, 22.

(3) Heterocyclic Compounds, Part III. Synthesis of some Bromo-Quinazolones. M. R. Subbaram, Journal of the Madras University, 1954, **B 24**, 179.

(4) Heterocyclic Compounds, Part IV. Synthesis of some Iodo-Quinazolones. M.R. Subbaram, Journal of the Madras University, 1954, **B 24**, 183.

(5) Longifolene : K. N. Menon, Current Science, August, 1954, **23**, 266.

(b) Works completed.

(1) Heterocyclic Compound, Part V - Synthetic compounds structurally related to Evoidiamine and Rutaecarpine - M. Indravathi.

(2) Heterocyclic Compounds, Part VI and Part VII, Condensed Ring Systems from Aminopicolines - M. Krishnan.

IV. Research Students :

	Stipendiary	*Non-Stipendiary*
(*a*) University	1	3
(*b*) Govt. of India—		
Senior Scholars	2	
Junior Scholars	3	

V. Lecture Classes :

Three candidates joined the M.Sc. (Post-Honours) course. The Professor and Reader delivered Inter-collegiate lectures.

VI. Other Information :

The Reader attended the Indian Science Congress. Two students, Mr. M. R. Subbaram and Miss M. Indravathi, were awarded the M.Sc. Degree.

(b) Bio-Chemistry.

I. Staff :

Professor :

Sri P. S. Sarma, B.Sc. (Hons.), M.Sc., Ph.D. (Wisconsin), F.R.I.C. (London), F.A.Sc.

Senior Lecturer :

Sri E. R. B. Shanmugasundaram, B.Sc., M.A., Ph.D.

Research Assistant:

Sri R. Radhakrishnamurthy, B.Sc. (Hons.) (Upto 31st August, 1954).

Sri R. Sivaramakrishnan, M.A., M.Sc. (from 4th September, 1954).

II. General :

The Indian Council of Medical Research renewed the grant for the scheme on the investigation of the "Enzymic Role of Inositol" for the fifth year in succession, while the Council of Scientific and Industrial Research renewed the grant for the fourth year for investigations on "Thyroidal Activity of Thyroglobulin and other Iodoproteins." The Madras State Research Committee sanctioned this year a grant for the investigation of "The Factors Responsible for the Differences observed in growth promoting and Vitamin values of Reconstituted Milk, Cow's Milk, and Toned Milk" and the Atomic Energy Commission sanctioned a grant for the research scheme entitled "Studies on the Biochemical Role of Zinc by the use of Radio-active Zinc." The total strength of the Research workers in the Laboratory at present is fifteen including five Government of India Research Scholars, six Research Assistants in various research projects and one Research scholar of the Lady Tata Memorial Trust, Bombay.

III. Topics on which Research is in progress :

1. Studies on the Enzymic role of Inositol using radioactive phosphorus (P^{32}).
2. Iodination of proteins under optimum conditions to obtain highest thyroxine activity.
3. Effect of thyroxine and thyroglobulin on the growth of Rice moth larvae (*Corcyra cephalonica st.*)
4. Investigation of the goitrogenic action of groundnut using radio active iodine (I^{131}).

5. Factors responsible for the poor growth promoting effect and low vitamin content of reconstituted milk.

6. Studies on the biochemical role of zinc using radioactive zinc.

7. Inter-relationship among vitamins and among vitamins and amino-acids.

8. Biosynthesis of sterols, fatty acids and ascorbic acid.

9. Influence of vitamins on excretory pigments and on nitrogen metabolism.

10. Studies on phosphatases, phosphoproteins, and dephosphorylation of phosphoproteins.

III. Works published during the year and works completed :

1. Role of pyridoxine in tryptophane metabolism studied in rice moth larvae (*Corcyra cephalonica st*) ; Current Science, Vol. 23, p. 16, 1954 : E. R. B. Shanmugasundaram & P. S. Sarma.

2. The effect of thiouracil and thyroxine feeding on the catalase level in the liver of the rat ; Journal of Scientific & Industrial Research, Vol. 13 B, p. 115, 1954 : L. K. Ramachandran & P. S. Sarma.

3. The relationship between folic acid and biotin, Current Science, Vol. 23, p. 55, 1954, M.O. Tirunarayanan & P. S. Sarma.

4. Role of carbohydrates on the biosynthesis of nicotinic acid in germinating green gram ; Journal of Madras University, B, Vol. 24, p. 13, 1954 : E. R. B. Shanmugasundaram & P.S. Sarma.

5. Influence of some B vitamins on the conversion of desthiobiotin into biotin by *Neurospora Crassa*; J. Madras University, B, Vol. 24, p. 117, 1954: M. O. Tirunarayanan & P. S. Sarma.
6. Role of biotin in carbohydrate metabolism of *Aspergillus Oryzae*; Journal of the Madras University, B, Vol. 24, p. 125, 1954, M. O. Tirunarayanan & P. S. Sarma.
7. Metabolism of nicotinic acid and nicotinamide in rice moth larvae; Current Science, Vol. 23, p. 92, 1954: T. K. Sundaram, R. Radhakrishnamurthi & P. S. Sarma.
8. Preparation of dephosphorized casein by an enzymic method; Nature, Vol. 173, p. 685, 1954: T. A. Sundararajan & P. S. Sarma.
9. The Influence of vitamins on nitrogen metabolism Part II - The influence of neopyrithiamine gamma-3-4, - (ureylene cyclohexyl)-butyric acid and aminopterin on amino acid changes during germination; Journal of Scientific & Industrial Research, Vol. 13-B, p. 413, 1954: V. M. Sivaramakrishnan & P. S. Sarma.
10. Phosphoprotein phosphatase from rat spleen; Biochemica et Biophysica Acta, Vol. 13, p. 588, 1954: T. A. Sundararajan & P. S. Sarma.
11. Influence of biotin on the inositol - √ hexachlorocyclohexane relation in *Aspergillus oryzae*; Journal of Scientific & Industrial Research, Vol. 13B, p. 488, 1954: M. O. Tirunarayanan & P. S. Sarma.
12. Tryptophane utilisation by *Neurospora crassa* and the influence of pure amino acids; Current Science, Vol. 23, p. 224, 1954: E. R. B. Shanmugasundaram & P. S. Sarma.

13. Paper chromatography of pteroylglutamic acid ; Current Science, Vol. 23, p. 266, 1954 : R. Radhakrishnamurthy & P. S. Sarma.

14. The inhibition of neopyrithiamine of asparagine synthesis from glutamic acid and glucose ; Biochemica et Biophysica Acta, Vol. 14, p. 579, 1954 : V. M. Sivaramakrishnan & P. S. Sarma.

15. Role of biotin in the biosynthesis of riboflavin in *Aspergillus Oryzae*; Journal of Scientific & Industrial Research, Vol. 13-B, p. 591, 1954 : M. O. Tirunarayanan, R. Radhakrishnamurthy & P. S. Sarma.

16. Mechanism of enzyme action ; Current Science, Vol. 23, p. 284, 1954 : P. S. Sarma.

17. Excretion of nicotinuric acid as a metabolite of nicotinic acid by rice moth larvae (*Corcyra cephalonica st.*). Current Science, Vol. 23, p. 398, 1954: T.K. Sundaram & P. S. Sarma.

18. The relation between biotin and tryptophane metabolism studied in *Neurospora crassa* ; Biochemical Journal, London, Vol. 58, p. 469, 1954: E. R. B. Shanmugasundaram, M. O. Tirunarayanan & P. S. Sarma.

IV. Research Fellows, Students and Government of India Scholars:

There are two Senior and three Junior Government of India Scholars, one Lady Tata Memorial Trust Research Scholar and three non-stipendiary research students. They are engaged in the following investigations :—

1. Influence of vitamins and anti-vitamins on nitrogen metabolism in germinating seedlings.

2. Studies on dephosphorylation of phosphoproteins.
3. Biosynthesis of sterols and fatty acids.
4. Phosphoproteins.
5. Biosynthesis of ascorbic acid.
6. Influence of vitamins on excretory pigments.
7. Inter-relationship among vitamins and amino acids.
8. Nutritional evaluation of processed foods.
9. Study on phosphatases.

One student was awarded the Ph.D. Degree and another M.Sc. Degree during the year. Two more students have submitted their theses for the M.Sc. Degree.

V. Lecture Classes : Strength, Number of Passes, etc. :

Lectures for the M.Sc. (Biochemistry) classes were given this year. Two students are attending the course.

Out of the two students who appeared for the M.Sc. Degree by examination in Biochemistry one passed in First Class and the other in Second Class.

VI. Other Information :

The Professor attended the annual meeting, in Mysore, of the Biochemical Research Committee of the Council of Scientific and Industrial Research. He also attended the Forty-first session of the Indian Science Congress held at Hyderabad as a delegate of the University. He was re-elected to the Executive Committee of the Society of Biological Chemists (India). Further, he also attended the symposium on " The Recent advances in the Biochemistry of Milk

and Milk Products" held in Bangalore and the symposium on "Proteins in Health, Disease and Industry" held in Bombay during the year.

Prof. G. S. Fraenkel of the University of Illinois, United States of America, visited the Department at the invitation of the University and gave a few lectures on the subject of Insect Nutrition.

(c) Physical Chemistry.

I. Staff:

Reader:

Sri M. Santhappa, Ph.D. (Lond.), Ph.D. (Manch.)

II. (a) General:

A permanent research laboratory for Physical Chemistry has been set up in the campus of the Alagappa Chettiar College of Technology. The laboratory has been fitted with all the necessary and essential services. There is sufficient accommodation for at least twelve research students. The plans to construct an ideal laboratory for researches especially in high polymer Chemistry have been partly fulfilled though major equipment for high polymer research is yet to come.

(b) Topics on which research is in progress:

1. Kinetics of addition polymerization of vinyl monomers by free radicals in bulk and solution phases by thermal as well as phool chemical method with particular reference to chain transfer reactions and rates of initiation of polymerization.

2. Photo polymerization of acrylic and vinyl monomers in aqueous solution by radicals produced from electron transfer reactions in the ion-pair complexes of $Fe^{3+}X$—type where X= Halogen, azide, citrate radical-ion or oxalate radicalion.

3. Investigation of a direct reaction if any between hydrogen peroxide and hydrazine.

III. Work published during the year:

1. Ferric azide ion-pair as a photo sensitizer in the polymerization of vinyl compounds in aqueous solution (Journal of the Madras University, B XXIV No. 1, 91-116, 1954) by M. Santhappa.
2. Impurities in certain photochemical systems involving radicals in aqueous solution (current science, 23, 145-147, 1954) by M. Santhappa.
3. Chain transfer reactions in an addition polymerization of styrene (current science, 23, 259-260, 1954) by M. Santhappa & V. S. Vaidhyanathan.
4. Kinetics of reactions between chloride radicals from photo excited ion-pair $Fe^{3+}Cl^{-}$ and vinyl monomers in aqueous solution (Journal of Madras University B XXIV, No. 2, 279-294, 1954) by M. Santhappa.
5. Polymerization of vinyl monomers in aqueous solution by radicals from photo excited electron transfer reaction in the ion-pair $Fe^{3+}OH^{-}$ (Journal of Scientific and Industrial Research November 1954) by M. Santhappa.

IV. Number of Research Students:

There are now four students working in the Department. There is one stipendiary student. The various topics on which the students are carrying out researches are given under II (b).

V. Lecture Classes:

The Reader has delivered a series of six lectures on "polymerization" to research students before they

were allotted problems for research. He has also delivered six lectures in the month of December 1954 for the students going in for M.Sc. Degree by examination in May 1954. The Reader has also delivered two lectures on the "reactions of ions and radicals from hydrogen peroxide" as part of Inter-collegiate lectures.

VI. General Information:

The Reader attended the Forty-first Session of the Indian Science Congress at Hyderabad in January 1954.

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11. DEPARTMENT OF BOTANY.

I. Staff:

Director and Professor:

Sri T. S. Sadasivan, M.Sc., Ph.D. (Lond.), F.A.Sc.

Reader:

Sri C. V. Subramanian, M.A., Ph.D.

Senior Lecturer:

Sri K. Ramakrishnan, B.Sc. (Hons.), Ph.D.

Research Assistant:

Kumari C. B. Sulochana, M.Sc.
(Appointed 5-4-1954).

II. Topics on which research is in progress:

1. Fungus floras of South Indian virgin and cultivated soils.
2. Soil conditions and root diseases with special reference to Fusarioses.
3. Rhizosphere microfloras of Indian crop plants in relation to soil-borne diseases.
4. Effect of Trace Elements on Fungi.
5. Studies on Fungi Imperfecti from Madras.
6. Growth factor requirements of Fungi.

7. Morphology and Taxonomy of South Indian Fungi.
8. Studies on Ascomycetes of South India.
9. Studies on South Indian Myxomycetes.
10. Studies on seed-borne diseases of cereals and millets.
11. Studies on Helminthosporioses in India.
12. Investigations on the 'tikka' disease of groundnut.
13. Chromatography, Spectroscopy and bio-assay techniques.

III. Works published during the year and works completed:

(a) *Works published during the year:*

(1) " Studies on the black rot of coffee. I. The disease in South India and some general considerations " by K. T. Mathew.

(2) " Studies on the black rot of coffee. II. Nutritional requirements of *Pellicularia koleroga* Cooke with special reference to growth substances " by K. T. Mathew.

(3) " A simple technique in paper disc Chromatography " by K. Lakshminarayanan.

(4) " Soil conditions and root diseases. X. The tomato wilt Fusaria," by R. Prasanna Varma.

(5) " Three new Hyphomycetes " by C. V. Subramanian.

(6) " Studies on South Indian Fusaria. III. Fusaria isolated from some crop plants " by C. V. Subramanian.

(7) " Some factors affecting the growth of *Rhizoctonia bataticola* " by A. T. A. Kovoor.

(8) " Bio-assay of heavy metals by *Aspergillus niger* Sensitivity of a new strain " by L. Saraswathi Devi.

(9) " Fungi Imperfecti from Madras. VI " by C. V. Subramanian.

(10) " On the asexual and sexual reproduction of *Characiosiphon rivularis* Iyengar " by M.O.P. Iyengar.

(11) " Soil conditions and root diseases. XI. *Neocosmospora vasinfecta* Smith, Disease of, *Cajanus cajan*," by T. S. Sarojini.

(12) " The developmental morphology of *Chara zeylanica* Willd," by V. S. Sundaralingam.

(13) " Recent advances in the study of soil-borne Fusaria " by T. S. Sadasivan and C. V. Subramanian.

(14) " *Alpakesa*, a new genus of the Sphaerosidales " by C. V. Subramanian and K. Ramakrishnan.

(15) " Some slime-moulds from Southern India I" by V. Agnihothrudu.

(16) " Some slime-moulds from Southern India II" by V. Agnihothrudu.

(17) " Soil conditions and root diseases. XII. The role of zinc and manganese in altering host metabolism " by R. Kalyanasundaram.

(18) " Microchromatography I " by K. Lakshminarayanan.

(b) *Works completed*:—

(1) " Microchromatography II. Detection of trace elements in biological media " by K. Lakshminarayanan.

(2) " Bio-assay of *Fusarium* toxin : An agar-cup method for quantitative evaluation " by R. Kalyanasundaram.

(3) "Soil conditions and root diseases. XIII. Symptomatology in *Fusarium* wilt" by R. Kalyanasundaram.

(4) "Soil conditions and root diseases. XIV. Fungal wilts and changes in Host Metabolism" by R. Kalyanasundaram.

(5) "Fluorescence phenomenon in Fusariose wilt of cotton" by N. S. Subba Rao.

(6) "Studies on South Indian Fusaria. IV. The wilt type in *Fusarium udum* Butl." by C. V. Subramanian.

(7) "Polythene and Heavy Metals" by L. Saraswathi Devi.

(8) "Growth requirements of *Piricularia oryzae* Br. et Cav." by A. Appa Rao, L. Saraswathi Devi and S. Suryanarayanan.

(9) "Some slime-moulds from Southern India. III" by V. Agnihothrudu.

(10) "Studies on growth requirements of some Indian fungi" by T. S. Sadasivan and C. V. Subramanian.

IV. Research Fellows, Students and Government of India Scholars :

(1) University Research Fellow : 1.

(2) University Research Students : 5.

(3) Government of India Scholars (Senior) : 5 ; (Junior) : 3.

(4) I.C.I. Research Fellow : 1.

Subjects of their Research:

(1) Studies on blast disease of rice.

(2) Studies in the control of fungal wilts of plants.

(3) Host parasite relationships in plant wilts with special reference to respiration.

(4) Soil conditions and wilt diseases in plants: Rhizosphere microflora in relation to fungal wilts.

(5) Studies in the genus *Fusarium* with special reference to toxicology.

(6) Soil conditions and wilt diseases in plants: Essentiality of trace elements to some soil fungi.

(7) Growth factor requirements of some fungi.

(8) Soil conditions and wilt diseases in plants: Fungal wilts and changes in host metabolism.

(9) Soil conditions and wilt of plants with special reference to trace element nutrition.

(10) Trace element nutrition of fungi with special reference to *Fusarium moniliforme.*

(11) Studies on fungal enzymes.

Number qualified for research degrees during the year:

Ph.D. Degree: 3
M.Sc. Degree: 1

V. Lecture classes and other lectures:

Lecture for the M.Sc. (Plant Pathology) Students.

Strength: 3 students, in the present year.

Number of passes. 3 out of 3 students in 1953-54.

Inter-collegiate Lectures by the Staff:

Director: 10 lectures on Plant Viruses and Virus Diseases.

Reader: 10 lectures on fundamental principles of Plant Pathology.

Senior Lecturer: 15 lectures on an outline of the classification of the fungi.

VI. Other general information such as attendance at Conferences, etc.:

Prof. T. S. Sadasivan (Director) attended the Fifth Mycological Conference at London and the Eighth International Botanical Congress at Paris during June-July, 1954.

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12. DEPARTMENT OF ZOOLOGY.

I. Staff.

Director (Professor):
Sri C. P. Gnanamuthu, M.A., D.Sc.

Reader:
Sri G. Krishnan, M.A., M.Sc., Ph.D. (Manchester).

Lecturer:
Mr. S. Krishnaswamy, M.Sc.

Research Assistant:
Sri V. O. Sebastian, M.Sc., Ph.D.

II. Topi cs on which research is in progress :

1. Director : Parasitic copepods and sand living isopods.
2. Reader : Cuticle of marine arthropods and physiological studies on the blood in relation to cuticle development.
3. Lecturer : Free living copepods and their physiology.
4. Research Assistant : Studies on ascidians metamorphosis, asexual reproduction, regression.
5. Students—
   (*a*) Studies on the Teredinidae of Madras coast.
   (*b*) Study of the anatomy and development of Dasychone.
   (*c*) Studies on cirripedes.

(*d*) Fat contents of fishes and seasonal fluctuations.

(*e*) Studies on the free living nematodes of Madras.

(*f*) The development and growth of marine sedentary organisms.

(*g*) The cuticle of crustacea.

(*h*) Plankton studies.

(*i*) Endocrines of fishes.

(*j*) Food and feeding habits of fishes.

(*k*) Respiration of Anura.

(*l*) Excretory glands of Entomostraca.

(*m*) Polychaets of Madras.

(*n*) Marine crustacea fouling timber.

III. Works published during the year :

1. Two new Isopods from the Madras sea-shore Ann. Mag. Nat. Hist. Sci. 127 : 257-273.—C. P. Gnanamuthu.

2. Tyrosinase activity in relation to phenolic tanning of the cuticle in carcinus Proc. Nat. Inst. Sc. India. 20 : 157-169.—G. Krishnan.

3. Pelagic copepod of the Madras Coast. J. Zool. Soc. India. 5 : 64-75 (1953).—S. Krishnaswamy.

4. A new species of Harpacticoid copepod from Madras.—S. Krishnaswamy.

5. On *Polyclinum indicum*, a new ascidian from the Madras Coast. J. Washington Acad. Sci. 44 : 18-23.—V. O. Sebastian.

6. Bionomics of *Ptychodera flava*. J. Madras Univ. B. 24 : 1-5.—K. Pampapathi Rao.

7. Some newcirripedes from the Madras coast. J. Madras Univ. B. 23 : 219-226.—A. Daniel.

8. The attachment of Barnacle Cyprids to different types of S. Indian timber Ibid. 23 : 226-231. (1953).—A. Daniel.

9. *Conchoderma indicum*. N. Sp. A. Pedunculate cirripede from Krusadai Is. J. Zool. Soc. India. 5 : 235-238.—A. Daniel.

10. Seasonal variations and the succession of the fouling communities in the Madras Harbour. J. Madras Univ. B. 24 : 189-212.—A.Daniel.

11. *Mugil crenilabris* (Forst) a plankton feeder, Ibid 24 : 143-160.—S. Mahadevan.

12. A new genus of Trematode (Chauhanae) from the gills of *Sphyraena acutipinnis* Day. J. Zoo. Soc. India. 5: 59-63 (1953).—Ramalingam,K.

13. Carbohydrate and fat contents of fishes. J. Madras Univ. B. 23 : 232-238.—T. S. Ramaswamy.

14. Food of the Indian Herrings. J. Madras. Univ. B. 23 : 239-247 (1953).—P. Vijayaraghavan.

IV. Works completed during the year :

Thesis for M.Sc. Degree.

Miss. Ruby Abraham : Sinus Gland of Crustacea and siphonophores of Madras. Result awaited.

Mr. Ather Ali : Studies on the sponges of Madras. Awarded the degree.

Thesis for Ph.D. Degree.

V. O. Sebastian : Studies on Cirrapedas. Awarded the degree.

S. Krishnaswamy : Studies on copepods. Result awaited.

Papers in Press.

DIRECTOR:

1. Choniosphaera indica copepod parasitic on *Neptulus* Parasitology Cambridge.

2. A new semi parasitic copepod from an estuarine actinian Rec. Indian Mus.

3. Speciation and New systematics—Symposium on evolution. Proc. Nat. Inst. Sci.

4. Biology and parapsychology. Univ. Journal Section A, Madras.

5. The epicuticle of an arachnid *Palamnaeus swammerdami*. Quart. Journal of Micro. Sci.—G. Krishnan.

6. Dedifferentiation in the colony of *Polycinum indicum*. J. Madras Univ. B.—V. O. Sebastian.

7. *Perophora Listeri var indica* a new variety of ascidian from the Madras coast, Zoology Awz.—V. O. Sebastian.

8. Symplagma viride and *Symplegma vivide stolonica* two unrecorded ascidians from the Madras coast, Bombay, Nat. His. Soc.—V. O. Sebastian.

9. The cutaneous and pulmonary exchange of gases in the Frog. J. Madras Univ.—A. George Cherian.

10. Ecdysial mechanism in *Penaeus indicus*.—A. Krishnakumaran—Cur. Sci.

11. Cirripedia of the Madras Coast. Bull. Madras Govt. Mus.—A. Daniel.

12. Ship worms of Madras (South India) Rec. Indian Museum.—N. Balakrishnan Nair.

V. Number of Research Fellows:

Govt. of India.	Cultural Scholar	1	from Malaya
,,	Senior Scholar	1	
,,	Junior Scholar	2	
,,	Wood Preservation Scheme	2	
Research Students		8	
M.Sc. (by Exam.) student		1	

VI. Inter-collegiate lectures:

11 lectures on Invertebrate Embryology were delivered to 12 students from Presidency College and 9 students from Christian College. Practical demonstrations were also arranged by the staff.

The M.Sc. (By Exam.) student has been given daily 2 lectures from July till December.

VII. The Director attended the Science Congress at Hyderabad early in the year. A student from Malaya, Mrs. Vijayamma, is doing research for her M.Sc. Degree studying the Anatomy and development of Dasychone.

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13. DEPARTMENT OF GEOLOGY AND GEO-PHYSICS.

I. Staff:

Reader:

Sri P. R. Jagapathy Naidu, M.Sc., D.Phil. (Basel), F.G.S., F.G.M.S., F.P.S., Foreign member Amer. Crys. Soc. Swiss. Min. Soc. and Amer. Min.Soc.

Research Assistant:

S. Ramanathan, M.A.

II. Topics in which research is in progress and works completed:

Research in progress:

1. Granites and granites-Series II.
2. The relationship of ultrabasic rocks to the Chanockites as studied in Salem and Dodkanya.
3. The Charnockites from the type area of Sir Thomas Holland.
4. The Chamundi Granite.
5. The Granite mass of Jalarpet.
6. The anorthite gneiss and associated rocks of Sittampundi.
7. Sankaridrug granite and associated rocks.

Works completed:

1. The Geology of Pachamalai, Pallavaram.
2. The heavy mineral suite of Chamundi granite.
3. The heavy mineral suite of Jalarpet granite.
4. The dyke rocks of Salem and Dodkanya.
5. Two amphiboles of Sittampundi.
6. Interference figures in reflected polarised light.
7. Cordierites from the burnt rocks of Jharia and Raniganj coalfields.

III. Works published during the year:

1. Dyke rocks of Pallavaram, J.Mad., Univ. B. 24, No. 2, 1954 by N. Leelananda Rao.
2. Plagioclase felspars from the Charnockites of Salem, J. Mad. Univ. B., 24, No. 2, 1954 by S. Ramanathan.
3. Bluish-green hornblende from an amphibolite of Jalarpet, J. Mad. Univ. B. 24, No. 2, 1954 by V. M. Raghavan.

In Press :

1. Cordierites from the burnt rocks of the Jharia and Raniganj coalfields by Dr. P. R. J. Naidu.
2. Interference figures in reflected polarized light by Dr. P. R. J. Naidu.
3. The rocks of Pachamalai, Pallavaram by N. Leelananda Rao.
4. Shonkinites from the ultrabasic areas of Salem by S. Ramanathan.
5. Plagioclase felspars from the granites and gneisses of Mysore by S. Kumarachandra Babu.
6. A calciferous amphibole from a xenolith in granite by S. Kumarachandra Babu.
7. Plagioclase felspars of granites, gneisses and associated rocks of Jalarpet by V. M. Raghavan.

IV. Number of Research Students, etc.:

Stipendiary research students	...	3
Non-stipendiary research students	...	1
M.Sc. Students by Examination	...	4

V. Diploma or other lecture classes, etc.:

22 lectures were delivered in Industrial Geology to 28 students in Chemical Engineering. Symposia were held on 12 topics and 8 lectures delivered to the M.Sc. students.

VI. The Reader was elected Fellow of the Palaeontological Society of India and Foreign member of the Swiss Mineralogical Society. He was again co-opted to the Council of the Mining and Metallurgical Society of India.

14. ANTHROPOLOGY DEPARTMENT.

I. Staff:

Lecturer:

Dr. U. R. (Baron) Ehrenfels, Ph.D. (Vienna).

II. Research work:

The Lecturer attended the Indian Science Congress Session held at Hyderabad and read a paper on Social Organisation and Kinship Terminology in Central Assam.

The Lecturer collected data on disintegration and re-integration of acculturation processes in contemporary societies.

The Lecturer studied, and took part, in Social Sciences and Philosophy discussions at the "Austrian College," Alpbach (Tyrol) and gave a lecture on his researches to the Austrian Branch of "Women's International League for Freedom and Peace," Geneva.

III. Publications during the period from December 1953 to November 1954:

(*a*) *Comparative Study of Matrilineal Civilizations in India*, in "The Journal of the Gauhati University," December 1953, Vol. 4.

(*b*) *The Lyngngam of Assam*, published in "March of India," Government of India, New Delhi.

(*c*) An article on *Problems of Education* in "Kontinente," Vienna (in the language of the country) Vol. VI, June, 1954.

(*d*) An article on *Two Poles of Society* in "Kontinente" Vienna (in the language of the country) (in the Press).

(*e*) *Differences in Marriage Regulations among the Lyngngam, Khasi and Garo*, in "American Anthropologist", Chicago (in the press).

IV. Certificate and Diploma Courses in Anthropology:

3 Diploma and 2 Certificate students appeared for the examination in April 1954, and 3 and 2 respectively passed.

7 students joined the second year of the Diploma course and 3 for the Certificate course. 1 more student joined the first year Diploma course.

The Lecturer delivered lectures to both the courses. He was assisted by Dr. A. Ananthanarayana Ayyar and Dr. Aiyappan with their lectures on Comparative Anatomy of Man and Anthropoid Apes and Pre-historic Archaeology during the year.

The Lecturer went abroad on earned leave from 26th March to 16th November, 1954, and Sri M. S. Gopalakrishnan, M.A., M.Litt., acted as Junior Lecturer and conducted both the Diploma and Certificate classes.

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15. DEPARTMENT OF CONSTITUTIONAL AND INTERNATIONAL LAW

I. Staff :

Professor :

Charles Henry Alexandrowicz, Esq., LL.M., LL.D., Barrister-at-Law.

II. Topics on which research is in progress and works completed :

1. The Indian Constitution.
2. International Law in Asia.

III. Works published during the year :

1. The Indian Year Book of International Affairs, Vol. II.
2. The Legal position of Tibet (American Journal of International Law).
3. The Problem of Kashmir (Political Quarterly, London).
4. Federalism in India (International and Comparative Law Quarterly).
5. Common Law Prerogative writs in India (Indian Year Book of International Affairs).

IV. Research Students :

There were three research students till November 1954. At this date one of the research students was appointed Research Fellow and two new students were added. The subjects on which research was carried out were :

1. Freedom of speech and expression in India and in the U.S.
2. Constitution of the Philippines.
3. The legal aspect of Indo-Burmese relations in the past.
4. History of International Law in Asia.
5. India and the Commonwealth of Nations.
6. The Judiciary in India.
7. Freedom of Religion in India.

V. M.L. Classes :

Every week five classes were held for M.L. students and twice a week meetings with research students took place. The class in Constitutional Law was held once a week.

VI. Conferences, etc.:

The Professor took part in the International Legal Conference in Delhi in January 1954.

The Professor was on Study leave in London and he lectured at the University of London. He was also Ph.D. Examiner at the London School of Economics.

Meetings of the Indian Committee of Comparative Law affiliated to the UNESCO were held with the Professor acting as Secretary General.

The Professor is Editor of the Indian Year Book of International Affairs. Vol. II appeared in April 1954. Vol. III is under preparation.

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16. DEPARTMENT OF TECHNOLOGY
(Alagappa Chettiar College of Technology, Guindy)

(a) Chemical Technology.

I. Staff:

Director and Professor of Chemical Engineering:
Vacant.

Reader in Chemical Engineering:
Sri G. S. Laddha, B.Sc., B.Sc. (Tech.), M.S., Ch.E. (Purdue), Ph.D. (Purdue), A.M.I.I. Chem.E. (*in charge from* 19-11-1954).

Reader in Engineering:
Sri V. S. Jayaraman, B.E., A.M.I.E., A.M.I.I. Chem.E.

Reader in Chemical Technology:
Sri A. P. Madhavan Nair, M.A.

Senior Lecturer in Chemical Engineering:
Sri B. Chennakesavan, B.Sc. (Hons.) Tech., A.M.I.I. Chem.E.

Senior Lecturer in Industrial Chemistry:

Sri P. B. Janardhan, M.A., Ph.D., A.R.I.C.(Lond.)

Senior Lecturer in Engineering:

Sri P. Murugamanickam, B.E.

Senior Lecturer in Ore Dressing:

Sri M. G. Subba Rau, B.Sc., B.Sc. (Tech.)

Demonstrators:

1. Sri B. Jagannadhaswami, B.Sc., B.Sc. (Tech.)
2. Sri B. K. Sadananda Rao, B.Sc. (Tech.)
3. Sri S. Subramaniam, B.Sc., B.Sc. (Tech.)
4. Sri N. Subrahmanyam, B.Sc., B.Sc. (Tech.)

We deeply regret to record the sudden death of Dr. M. A. Govinda Rau, Professor and Director after a short illness on 19th November, 1954. The Reader in Chemical Engineering has since been in charge of the administrative duties.

With the help of a grant from Government of India the Ore Dressing Laboratory in the department is being equipped and Sri M. G. Subba Rau has been appointed Senior Lecturer in Ore Dressing from 11th September, 1954. Sri S. Venkataraman, Demonstrator, left the College on 31st March, 1954. Sri R. S. Raman, Demonstrator, left the College on 30th June, 1954. Sri D. P. Kannayya Pillai, Demonstrator, left the College on 14th September, 1954. In these vacancies Sri B. Jagannadhaswami, Sri B. K. Sadananda Rao and Sri N. Subrahmanyam have joined the College as Demonstrators.

II. Research work in progress and works completed:

(*a*) A study of the nature of filtration and structure of filter cake has been made and a thesis based on the results have been submitted to the University by Sri M. G. Subba Rau.

(*b*) An investigation on the vapour-liquid equilibria over ternary system involving acetic acid, water and salts was submitted to the University by Sri S. Venkataraman, for the degree of M.Sc., which has now been awarded to him.

(*c*) A study of size analysis of ultra fine particles has been brought to a certain stage and a thesis based on these investigations has been submitted by Sri R. S. Raman for M.Sc. Degree.

(*d*) A study of the flooding velocities in liquid-liquid extraction column has yielded interesting results and the work is being continued.

(*e*) Study of Heat transfer through packed column has yielded a good deal of design data. The work is in progress.

(*f*) In a great many cases dissolved solutes have to be separated for solutions. Such operation can be carried out continuously in liquid-liquid extraction columns. Work on such projects is under investigation.

(*g*) With the great interest roused by the discovery of large lignite deposits in South India, investigations are under progress in this College to study in particular the Chemical products that can be derived from the same. Some aspects of this work have been completed and are under publication.

(*h*) A study of new methods of electro-analytical chemistry has been started.

III. Works published during the year:

1. "The Role of Chemical Engineers in Industrial Development" by Dr. M. A. Govinda Rau, Altech. Vol. 4 (1954).

2. " Cotton seed oil Industry takes shape " by Dr. G. S. Laddha, The cotton Trade Journal (U. S. A.) International Year Book 1953-54, p. 166-67.

3. " Hydrogenation of Fatty oils " by Dr. G. S. Laddha, Altech. Vol. 4 (1954).

4. " Estimation of Copper using Rubionic acid " by Dr. P. B. Janardhan, J.S.I.R., Vol. 12 B. No. 11.

5. " Low temperature carbonisation Assay of South Arcot Lignite " by S. Subrahmanyam and A. P. Madhavan Nair, Current Science, Vol. 23 No. 9, September 1954.

6. " Chemical Stoneware " by Sri M. G. Subba Rau, Altech. Vol. 4 (1954).

7. " Engineering Notes " by Sri V. S. Jayaraman, Altech. Vol. 4 (1954).

8. " Indirect Heating in Industry " by G. Venkataraman, Altech. Vol. 4 (1954).

9. " Steam as Heat Transfer Medium " by B. Chennakesavan, Steam User's Journal, Madras (Under publication).

10. " Carbonisation Assay of South Arcot Lignite at Different Temperatures " by S. Subrahmanyam and A. P. Madhavan Nair, the Journal of University of Madras (Under publication).

11. A study of the characteristics of the Low Temperature Tar obtained from South Arcot Lignite, by S. Subrahmanyam and A. P. Madhavan Nair, the Journal of University of Madras (Under publication).

IV. Research Fellows, Students and Government of India Scholars:

Three Government of India Research Scholarships are available to the Department. The two of these have fallen vacant from May and October 1954. Three probationary research students are working in the department. There is one non-stipendiary research student. The Government of India Scholar is working on the design of extraction columns. Other Research students are working in the fields of liquid-liquid extraction, distillation and electro-analytical technique.

One Research student Mr. S. Venkataraman was awarded M.Sc. Degree in the Department.

V. Teaching and Class work:

The results of the B.Sc. (Tech.) examination held in April-May 1954, are as follows :

	Part I. No. of students		Part II No. of students	
	appeared.	passed.	appeared.	passed.
Chemical Engineering ...	28	14	28	23
Textile Technology ...	12	9	11	11
Leather Technology ...	2	nil.	nil.	nil.

Dr. Alagappa Chettiar Gold Medal for 1954 was awarded to Mr. T. K. Kalyana Krishnan.

New admissions were made in July 1954 after the usual interviews by the Special Committee appointed by the Syndicate for the purpose. 46 students were admitted to the 1st year course :—

Chemical Engineering	29
Textile Technology	12
Leather Technology	5

Four students have since withdrawn :—

Chemical Engineering	2
Leather Technology	2

VI. Conferences, Foreign Students Industrial Tour Technical Association meetings and Symposia, Factory Training postings :

Conferences, Committees, Deputations:

Dr. G. S. Laddha was deputed to attend the Conference of Indian Institute of Chemical Engineers held at Hyderabad in January, 1954. Government of Madras have nominated him to be a non-official member of the Board of visitors to the Government Kerala Polytechnic at Kozhikode. Inter-University Board of India have nominated him to serve on the All India Board of Technical Education. Dr. Laddha was also a member of the Admissions Committee of the Indian Institute of Chemical Engineers for the year 1953-54.

Sri B. Chennakesavan has been deputed by the University to visit the Modern Quinine Factory of the Government of Madras at Annamalli and to give a technical report.

Foreign Students:

Under the Government of India Cultural Fellowship for Foreign students, a student from Burma completed the B.Sc. (Tech.) course in Chemical Engineering in the year 1954.

Industrial Tour:

The usual educational tour round Chemical Industries in South India was split into two schedules one during Dasara holidays to Mysore State and the second during Christmas holidays to Malabar and other places. The tours were conducted by Sri B. Jagannadhaswamy and Sri V. S. Jayaraman respectively.

Technical Association meetings and Symposium:

A number of technical reports on Design problem were prepared by the students and presented for discussion at the Student seminars. A number of technical meetings were arranged where the experts and leading industrialists of various chemical industries were invited for lectures and discussion. A symposium on "Fabrication and Erection of Industrial Equipment" was also organised in March 1954 when experts specialising in such equipment took a leading part in the proceedings. A number of people from Industry and various Institutions attended. On the occasion, the Indian Oxygen and Acetylene Co., gave a demonstration of the various methods of modern welding, brazing, cutting of metals and spraying of molten metals.

Factory Training Postings.

Arrangements were made for the practical training of our students in the following factories:

1. Fertilizers and Chemical Travancore Ltd., Alwaye.
2. Tata Chemicals, Mithapur.
3. Indian Aluminium Company, Alwaye.
4. Travancore Rayons, Ltd., Royanpuram, T.C. State.
5. Punalur Paper Mills, Punalur.
6. Lever Brothers, Bombay.
7. Mysore Fertilizers, Belagula.
8. India Cements, Ltd., Thalagathu, Tirunelveli.
9. Parry & Co., Ranipet.
10. Mettur Chemicals, Mettur Dam.
11. Mysore Iron & Steel works, Bhadravathi.
12. Andhra Paper Mills, Rajahmundry.
13. Assam Oil Company, Digboy.

14. Atal Products, Bombay.
15. Mysore Sugar Company, Mandya.
16. Travancore Cochin Chemicals, Elur.

(b) Textile Technology.

I. Staff:

Professor:

Sri B. C. Mohanty, B.Sc., M.Sc. (Leeds).

Reader in Weaving:

Sri S. Krishnamurthy, B.Sc., B.Sc. (Tech.)

Senior Lecturer in Spinning:

Sri R. A. Quraishi, B.Sc., B.Sc. (Tech.)

Junior Lecturer in Textile Chemistry:

Sri O. K. Balakrishnan, B.Sc., D.C.T.

Artist Designer:

Sri R. Madhavan (Diploma in Fine Arts).

Instructor:

Sri B. S. Venkatasubba Rao, B.Sc. (Textiles).

Instructor in Weaving:

Sri T. Muniratnam.

Instructor in Spinning:

Sri B. S. Krishnamurthy (Supervisor Certificate in Dyeing, Finishing, Power Loom Spinning and Weaving).

II. Topics on which research is in progress:

1. "Warp Tension and its Control."
2. "Dependence of Air Permeability and Wear on the Structure of Cloth."

III. Papers published during the year:

1. "Ginning Practices in India" by Messrs B. C. Mohanty & R. A. Quraishi.
2. "Clothing in the Tropics and Air Permeability of Satin Structure" by Sri B. C. Mohanty.

IV. Scholarships:

Government of India Scholar	...	1
Government of Orissa Scholar	...	1

V. Examination Results:

Eleven students appeared in Part II Examination in the year 1954, and all of them passed including one in the First Division.

Twelve students appeared in Part I Examination in the year 1954 and nine students passed the examination completely and all of them were promoted to the Second year class.

VI. General:

Equipment.

All the Blow Room Machineries were received during the year and the erection is almost complete. All the Practical Classes were conducted in the College and the students were not required to go to B. & C. Mills for the Practical Classes.

Lecturers:

Discussions and Lectures were arranged on the following subjects and the lectures were delivered by:—

1. "Processing of Viscose fibre in cotton Machines" by L. Outwaite, Esq., Carding Master, B. & C. Mills.
2. "Designing of Fabrics in relation to their use and influence of material employed in Designing" by G. E. Morris, Esq., Weaving Master, B. & C. Mills.

3. "Importance of Testing and Quality Control" by J. Hynes, Esq., Quality Control Officer, B. & C. Mills.

Conference:

The Professor of Textile Technology, attended the Eleventh All India Textile Conference, held at Bombay in March, 1954, and read a paper on "Clothing in the Tropics and Air Permeability of Satin Structure."

Educational Tours:

One Educational Tour was conducted in the month of October, 1954 and the following Mills and Institutions were visited at Bombay :

1. V. J. T. Institute.
2. Cotton Research Laboratory.
3. Sadhana Mills.
4. Century Mills.
5. Swadeshi Mills.
6. Chemical Technology Laboratory.
7. National Rayon Corporation, Ltd.
8. Sree Ram Mills.
9. J. J. School of Arts.
10. Mahalaxmi Woollen Mills.

Another Educational Tour was conducted in the month of December, 1954 and the following Mills and Institutions were visited :

Bangalore :

1. Sri Krishnarajendra Institute.
2. Binny & Co.
3. Hindustan Air Craft.

Mysore :

1. Government Silk Weaving Factory.
2. Kapila Textiles.
3. Spun Silk Factory.

Coimbatore:

1. Pioneer Mills.
2. P. S. G. Institute.
3. Lakshmi Mills.
4. Ranga Vilas Mills.
5. Vasantha Mills.
6. Kothari Mills.
7. Textool Co.

Award of Scholarships for Practical training.

Three Government of India Scholarships were awarded to three students of this Department for their training in the following Mills:

B. & C. Mills	...	2
Simplex Mills, Bombay	...	1

(c) Leather Technology.

(Central Leather Research Institute.)

I. Staff:

Sri B. M. Das, M.A., M.Sc. (Leeds),
Honorary Professor of Leather Technology.

Sri E. C. Mathew, B.Sc. (Tech.), Ph.D.

Sri A. Ganesan, B.Sc. (Tech.)

Sri Y. Nayudamma, Ph.D.,
Hon. Reader in Leather Technology.

Sri S. N. Sen, D. Phil.

Sri S. M. Bose, Ph.D.

Sri S. K. Mitra, Dip. in Leather Technology.

The above list includes only those who handle the B.Sc. (Tech.) Degree classes.

II. Topics on which Research is in progress :

Studies on Indian Vegetable tanstuffs, both fundamental and applied.

Studies on syntans.

Studies on mineral tannages.

Studies on combination tannages.

Studies on fat liquors.

Studies on aldehyde tannage.

Preparation of enzymes and study of their uses in the tannery.

Studies in neutralisation of chrome tanned leather.

The work of those who have registered for research degrees alone has been included.

III. Works published :

Combination tannages, Parts II & III.	J.S.I.R. Delhi.	
Lead salt method of preparing pure tannin	,, ,,	
Studies on some of the Indian tanning materials Part I	,, ,,	
Studies on E.I. tannage of skins, Part II & III	,, ,,	
Tanning Characteristics of Karada Bark.	Bulletin of Central Leather Research Institute.	September 1954.
Study of Hopea and Wattle tannages	,,	December 1954.

Publications by those who have registered for research degrees alone have been included.

IV. Number of Research workers :

There is one Government of India Scholar, the subject of his research being "Studies on neutralisation of chrome tanned leather." The following theses have

been submitted during the year and the results are awaited.

Ph.D. Thesis	ONE	January 1954.
M.Sc. Thesis	ONE	
M.Sc. Thesis	ONE	August 1954.

V. Lecture Classes, etc. :

The Department is training the B.Sc. (Tech.) degree students of Leather Technology. There are three and two students in the 1st and 2nd year classes respectively. The number of lectures given is 540.

VI. Tour, etc.

The second year students visited Shree Laxmi Tannin Extract Factory at Khargpur and the tanneries at Calcutta, Kanpur, Agra and Bombay. A nominee of the Government of Iraq was attached to the Department for 1½ months for acquainting himself with the various techniques of leather research.

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17. DEPARTMENT OF SANSKRIT.

I. Staff:

Reader :

Sri V. Raghavan, M.A., Ph.D.

Senior Lecturer :

Sri K. Kunjunni Raja, M.A., Ph.D.

Junior Lecturer.

Sri S. Subrahmanya Sastri, M.A.

II. Reader :

From May, 1953, to beginning of April, 1954, the Reader was on tour in Europe in connection with the New Catalogus Catalogorum work. He visited the Libraries, Seminars and Museums in England, Ireland,

Scotland, Belgium, France, Holland, Denmark, Norway, Sweden, Germany, Austria, Switzerland and Italy. He prepared a catalogue of about 20,000 manuscripts in the libraries of the above countries, for which there was no catalogue. He met the Indologists in all these countries, studied the nature and extent of the work now being done in the field of Sanskirt and Indology in those countries and prepared a comprehensive survey of Sanskrit and allied studies in Europe.

He returned and joined duty on 8th April, 1954.

He started revising and analysing the catalogue materials brought by him for preparation and publication of the Catalogue of 20,000 manuscripts surveyed by him in Europe.

He attended the Indian P.E.N. Conference at Annamalai University and the Samskrit Visva Parishat at Nagpur during April. During the latter part of the year Professor Norman Brown, Chairman, South-East Asian Studies, Pennsylvania University, U.S., became a Fulbright Scholar attached to the Department. The Reader has been assisting him in his work on the Soundaryalahari, etc. At Professor Norman Brown's invitation, the Reader took part in a Seminar sponsored by him and some of the American Orientalists now in India, and led a discussion with a paper on the subject of "Variety and Integration in the Pattern of Indian Culture." During the same latter part of the year a German Sanskrit Student Mr. Klaus Commann was permitted by the University to study in the Department and the Reader, together with the two Lecturers, was taking regular classes for him.

The Reader has been delivering the weekly lectures to the Sanskrit Honours Students, working with the Research Students of the Department, and supervising and scrutinizing the work of his colleagues in the Department.

The two Assistants sanctioned for Catalogus Catalogorum, Messrs K. V. Sarma and C. S. Sundaram continued to work during the year. A new clerk was appointed during the year and he has also been doing some index work for the Catalogus Catalogorum.

During the year 31,600 slips were prepared ; the number of slips checked during the year was 31,900.

III. Senior Lecturer:

The Senior Lecturer returned after his two years study leave in London on the 15th September. He continued the edition of Unadimanidipika started by him before he left and is revising his study on the subject 'the Indian Theories of Meaning.' He is teaching Vakyapadiya to the German student and contributed 400 slips to the New Catalogus Catalogorum.

IV. Junior Lecturer:

Of his publications in the press, 320 pages of the Battadipika with Prabhavali and 256 pages of Vedantakaumudi were printed during the year. He continued his work on the manuscripts of Sankarshakhanda and Nyayadipavali with commentaries. He also taught Vedanta to the German Student.

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18. DEPARTMENT OF TAMIL.

I. Staff:

The Rev. Lazarus Professor of Tamil:

Sri R. P. Sethu Pillai, B.A., B.L.

Senior Lecturer in Tamil:

Sri M. A. Dorai Rangaswami, M.A., M.O.L.

Junior Lecturer in Tamil:

Sri B. R. Purushothama Naidu, Pandit, Vidvan.

II. Professor:

(*a*) *Topics on which Research is in progress:*

1. A treatise on Sollin "Selvam" (The wealth of words in Tamil Literature).
2. A Study of the Diary of Anandaranga Pillai.
3. Kambar Kavi Inbam—A series of articles contributed to literary journals are being revised.

(*b*) *Works which are being printed:*

1. An English commentary on Tirukkural by F. W. Ellis with notes and explanations.
2. "Dravidian Comparative Vocabulary" prepared by the Heads of the Dravidian Language Departments.
3. Re-printing of the Tamil Lexicon.

(*c*) *Works published during the year:*

1. The Concise Tamil Lexicon published by the M.L.J. Press, Madras.
2. Velin Verri in Tamil
3. An article in English on "Right Versus Might", published in the Annals of Oriental Research.

(*d*) *General Information:*

(i) The Professor served on the following Committees:

1. Expert Committee of the Government Oriental Manuscripts Library;
2. Bharathi Works Publication Committee constituted by the Government of Madras; and
3. Editorial Board of Tamil Encyclopaedia and contributed two articles on (*a*) The Place-names of Tamilnad and (*b*) Kambar.

(ii) Five radio talks on "The Ancient Sea-ports and Shrines of South India" were broadcast from Radio Ceylon in pursuance of their educational programme.

(iii) Mr. J. R. Marr, British Government Research Scholar received one hour of instruction a week on 'Dravidian Philology' for two months.

(iv) Presided over the Bharati Day Celebrations at Ettayapuram.

III. Senior Lecturer:

(*a*) *Topics on which Research is in progress:*

The Ettuttokai (Eight Classical Anthologies)—Narrinai.

(*b*) *Works completed during the year.*

1. "Religion and Philosophy of Tevaram with special reference to Saint Sundarar, consisting of four parts :—(i) The Life, Work and Age of Sundarar, (ii) The Mythology in Sundarar's Tevaram, (iii) The Pilgrim's Progress and (iv) The Religion and Philosophy (1,200 pages in all).

2. An Essay on "The Philosophy of Tripurantaka Murti with special reference to Saint Sundarar" has been contributed to the Madras University Journal.

3. A research article on "The Education in the Sangam Age" has been contributed to the 'Annals of Oriental Research.'

4. Contributed a research article to 'Kalaikkathir' on "Kalaathalaiyar."

(*c*) *Lecture Classes, etc:*

Weekly classes to the B.A. (Hons.) and M.A. students of the Presidency and Pachaiyappa's Colleges on 'Tolkappiyam' were being conducted.

(*d*) *General Information:*

1. Assisted the Professor in the correction of the proofs of the Tamil Lexicon and the Concise Tamil Lexicon.

2. Mr. J. R. Marr, British Government Research Scholar, received an hour instruction a week on Patirruppattu for two months.

IV. Junior Lecturer:

(*a*) *Topics on which Research is in progress:*

" Tiruvaimozhi—Ittin Tamilakkam."

(*b*) *Works completed during the year.*

The printing of the 4th volume, entitled " Tiruvaimozhi - Ittin Tamilakkam " with an appendix.

V. Number of Research Students and Fellows:

(*a*) One Research Fellow is working on "A Critical Study of Purananuru."

(*b*) 6 Research Students (3 stipendiary and 3 non-stipendiary) are working on the following subjects:

(i) Contribution of Dr. G. U. Pope to Tamil Literature.

(ii) Pathu-p-pattu (The Ten Tamil Idylls).

(iii) Historic Places of the Ancient Tamilakam.

(iv) Studies in Purapporul Literature.

(v) A Study of the Vocabulary of Silappadikaram.

(vi) 'Crime and Punishment' in Sangam Literature.

There is also one Government of India Research Scholar who is working on " A historical Grammar of the Telugu Language."

19. DEPARTMENT OF TELUGU

I. Staff:

Senior Lecturer:

N. Venkata Rao, M.A.

Junior Lecturer:

S. Ramakrishna Sastri, M.A., B.O.L.

II. Topics on which Research is in progress and works completed:

Senior Lecturer:

In Progress.

(1) History of Linguistic Studies in Telugu. Early Period—Study of Ellis and Campbell —Collected materials.

(2) A Comparative Vocabulary of the Dravidian Cognates—under print.

(3) Investigation into the grammatical and prosodical peculiarities of Telugu according to Lakshanakaras—The language of the first Telugu poet Nannaya is being studied.

(4) Revision of the second part of the second volume of 'Lives of Poets in Telugu—1400-1500 A.D.'

Completed:

Revision of the first part of the second volume of the 'Lives of Poets 1250-1400 A.D.'

Junior Lecturer.

In Progress.

Collection of materials for the work entitled 'History of Language and Dravidian Philology.'

III. Works published during the year:

Senior Lecturer:

(1) The Southern School in Telugu Literature.

(2) Ellis and his Dissertation on Telugu Language (Annals).

Research Students.

One Government of India Scholar—joined the Department on 1-12-1954.

Subject—'Saivism in Telugu Literature and its contribution to South Indian Culture.'

V. Lecturer:

Senior Lecturer:

Lecturing work for two hours a week for the Telugu B.A. Honours and Post-Graduate students of the Presidency College on South Indian History and Inscriptions.

Strength : 12 Lectures : 32

VI. General:

The Senior Lecturer was deputed by the University as a delegate to the All-India P.E.N. Conference held at Annamalainagar, Chidambaram from 16th to 18th April, 1954 and took part in the deliberations of the Conference.

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20. DEPARTMENT OF KANNADA.

I. Staff:

Reader and Head of the Department:

Sri M. Mariappa Bhat, M.A., L.T., Vidvan.

Junior Lecturer:

Sri M. Govinda Rao, M.A., B.O.L.

II. Topics on which Research is in progress and works completed:

Topics on which Research is in progress:

Reader:

(1) Engaged in the collection of further materials for the 'History of Kannada Literature' (collected materials upto the 10th century).

(2) Research work on dialects—continued collection of Desi words in Tulu (about 400 words collected).

(3) Engaged in the revision and preparation of a press copy of 'Jataka Tilaka' (earliest extant work on Jyotisha written in Kannada—1049 A.D.—hitherto unpublished).

(4) Dravidian Comparative Vocabulary (a joint work of all the Dravidian Departments). The work is in the Press.

Junior Lecturer:

(1) 'Nature in Kannada Poetry'—The descriptions of earth, sky, cloud, mountain, forest, rain etc., in Kannada poetry and their significance.

(2) Lives and works of some Yakshagana poets—based on materials obtained from some manuscripts and from other sources.

Works completed or published:

Joint work of the Reader and the Junior Lecturer:

Parswanatha Purana of Parswa Panditha (a famous classical work of the 13th century: published for the first time).

Reader:

(1) A short history of Kannada literature (contribution to Tamil Encyclopaedia).

(2) Inflection of Nouns in Tulu ('Annals of Oriental Research', Vol. X, Part II.)

(3) Loan words in Kannada.

(4) Obsolete words in Kannada.

Junior Lecturer:

(1) 'Haridasa Literature in Kannada'—a critical study of the lives and works of some of the famous Haridasas—completed.

(2) 'Ratta Kings and Kannada Literature'—to be published in the 'Annals of Oriental Research', Vol. XI.

(3) A critical survey of the use of 'Sidilumari' in Kannada literature—completed.

(4) Historical elements in Nemichandra's Leelavathi—a work of the 12th century—published in the special issue of 'Yugapurusha.'

(5) 'Yakshagana in Karnataka'—published in the 'Annals of Oriental Research', Vol. X, Part II.

V. Diploma or other Lecture Classes, etc.

Reader and Junior Lecturer (each) lectured 4 hours a week to the Kannada Honours and Post-graduate Students of the Presidency College on History of Language, Philology, Inscriptions and History of Literature and Literary Criticism.

V. General:

(1) Continued to be Editor of the 'Annals of Oriental Research' and brought out Vol. XI, Part I.

(2) Continued to serve on the Provincial Library Committee.

(3) Served as a member of the Expert Committee of the Government Oriental Manuscripts Library (Kannada Series).

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21. DEPARTMENT OF MALAYALAM.

I. Staff:

Senior Lecturer:

Sri S. Krishnan Nayar, M.A., Ph.D.

Junior Lecturer:

Sri K. N. Ezhuthachan, M.A.

I. Topics on which Research is in progress and works completed:

Senior Lecturer:

(1) The Folk-drama of Kerala.

(2) Ballads of North Malabar, Vol. II.

(3) The Folk-dance of Kerala.

(4) The Early Beginnings of Malayalam.

(5) Dravidian Cognates.

(6) Pazhanchol Mala.

Items (1) and (2) mentioned above have been completed and are in the Press at present.

Research work on (3) and (4) is now being continued. Item (5) is a joint work with the Heads of the Departments of other Dravidian Languages. The work is being printed now.

Item (6) is a rare manuscript dealing with the proverbs in Malayalam and a press copy of the same has been prepared, to be published as a bulletin of the Department. A detailed study of the proverbs

in Malayalam has been done and an elaborate critical introduction, embodying the results of the study has been added to the same.

Junior Lecturer:

Linguistic and Philological studies in the Mediaeval Malayalam.

(1) Detailed study was made of all the important Pattu and Manipravalam works in Malayalam.

(2) A transliterated copy of all the inscriptions written in Roman characters in the " Malayalam inscriptions " published by the Madras University was prepared for conducting minute linguistic and philological research.

III. Works published during the year:

Senior Lecturer:

A new Nalacharitham Kathakali, an ancient work in manuscripts was taken up by the Senior Lecturer for editing with a critical introduction. The same is being published in the ' Annals of Oriental Research ', Vol. XI.

Junior Lecturer:

" Tarooswarupam", an old Malayalam work of historical interest is being edited for publication in the ' Annals of Oriental Research.'

IV. Number of Research Fellows, etc.:

One full-time, stipendiary Research Student—Subject of Research : ' A study of the Nalacharitham by Unnayi Warrier ' for M.Litt. Degree.

One part-time non-stipendiary Research Student—Subject of Research : ' An Etymological Study of the Loan words in Malayalam ' for Ph.D.

V. Diploma or other Lecture Classes, etc.:

Senior and Junior Lecturers are taking classes to the Honours and Post-graduate Students of the Presidency College on the Inter-Collegiate University Co-operation Basis—8 hours per week.

VI. General:

The Senior Lecturer served as a member of the Expert Committee of the Government Oriental Manuscripts Library (Malayalam Series).

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22. DEPARTMENT OF ARABIC, PERSIAN AND URDU.

I. Staff:

Junior Lecturer in Persian.:

Mr. A. S. Usha, B.A. (Aligarh).

Junior Lecturer in Urdu:

Mr. Muhammad Yousuf Kokan, M.A.

Mr. A. S. Usha is in charge of the Department from July 1953.

II. Topics on which Research is in progress and works completed:

(1) *Junior Lecturer in Persian*:

(a) Work in progress:

Tarikh-i-Khan-i Jahani by Khwaja Nimat-ul-lah. (A history of the Afghans and their rule in India down to the last successor of Sher Shah Sur); preparing press copy: so far 380 pages have been copied.

(b) Works completed:

(i) *Waqai-i-Mahammad Shah*: (contains the events of the reign of Mughul Emperor Muhammad Shah—1719-1748 A.D.—

including the invasion of Nadir Shah of Persia).

(ii) *Padshah Nama* by Iradat Khan Wazih, a contemporary of Emperor Alamgir: (contains events of the last decade of Alamgir's reign together with those of his successor's reigns upto the accession of Farrukh Siyar to the throne in January 1713 A.D.)

(2) *Junior Lecturer in Urdu* :

(a) Work in Progress:

Sabhat—by Syed Shah Abdul Qadir Fakhri of Madras (a treatise on Sulfism); preparing press copy; so far 42 pages have been copied.

(b) Work completed:

Asl-ul-usool by Syed Shah Abdul Qadir Fakhri of Madras: A work on Islamic Mysticism.

III. Works published during the year :

(1) *Junior Lecturer in Persian* :

Fat-eh Nama-i Mahmudshahi is in the press : No work was sent to the press besides the *Fat-h Nama.*

(2) *Junior Lecturer in Urdu* :

(*a*) *Kulliyyat-i-Abjadi, Part IV*: (Press copy prepared by M. H. Mahvi and revised by the present Junior Lecturer in Urdu.) The book has been published.

Tuhfat-ul-Mujahideen (Press copy prepared by Dr. S. M. H. Nainar.) published in the Annals of Oriental Research, University of Madras.

23. DEPARTMENT OF HINDI.

I. Staff:

Senior Lecturer :

Sri S. Shankar Raju Naidu, M.A., Sahitya Ratna, 'Honours in Hindi.'

II. Topics on which Research was carried on during the year :

1. Tirukkural (Tiruvalluvar aur Hindi Ke Suktikar —A comparative study with a complete translation).
2. Saiva Siddhanta and Tirugyanasambandhar.
3. Hindi and Punjabi (Linguistics).
4. Veera Parampara in Hindi—Chanda Bardayee.
5. Dialects of Hindi—" Bundali and Chattisgadhi " (a study of Folk Literature).
6. Comparative Study of Ramayana by Kambar and Tulsidas continued—under the supervision of Prof. R. P. Sethu Pillai, Head of the Department of Tamil.

III. Works published and completed during the year :

1. Kambar and Tulsi (or Rama Sita Poorva Raga in Ramayana)—In the press.
2. Treatment of Love by Tiruvalluvar and Biharilal (elaborated in Hindi)—to be published in the 'Annals of Oriental Research', University of Madras.
3. Saiva Siddhanta and Tirugyana Sambandhar—submitted for publication in Vol. I, No. 1 of the Magazine of the Institute of Hindi, Agra University, Agra.

4. Hindi and Punjabi—published in 'Sapta Sindhu' Vol. I, No. 1 (Punjabi Department, Government of PEPSU).

IV. Other General Information :

The Senior Lecturer attended the Third P.E.N. Conference at Annamalainagar, as a delegate of the University of Madras and took part in the various discussions there.

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24. DEPARTMENT OF INDIAN MUSIC.

I. Staff :

Reader :

Sri P. Sambamoorthy, B.A., B.L.

Assistants :

Sri Kalidoss N. Nilakanta Aiyar (Vocal).
Sri M. Udayavarmarajah (Veena).
Sri Madura S. Subrahmanya Aiyar (Violin).

II. Research work during the year :

1. The Antiquity of some musical instruments.
2. The life and contribution of Thyagaraja.
3. Varieties of Pallavis.

Publications :

Great Composers : Book 2 (Thyagaraja).
South Indian Music : Book IV (Second Edition).

In the Press :

The printing of the opera "Pallaki Seva Prabandham" has been commenced (This work is being edited for the Sangit Natak Akademi, Delhi).

Articles and Papers contributed :

1. Evolution of Musical forms.
2. Varieties of Composers.

3. Sacred Dance.
4. Varieties of Vinas.
5. Gotuvadyam.
6. Kshetrayya's contribution to Karnatic Music.
7. Our heritage : Musical Instruments.
8. Jalatarangam.

I. Conferences :

Presided over the Fifth Tevaram Pan Research Conference, held in Madras in December 1954.

IV. Teaching work :

The Reader and the Assistants conducted the Diploma classes. Of the six candidates that sat for the Music Diploma Examination in April 1954, five passed.

There are 25 students undergoing the Diploma course in Indian Music. There are 16 students in the first year class and 9 students in the second year class. 11 in the first year class and 6 in the second year class are studying Vocal; 3 in the first year class and 1 in the second year class are studying Violin; 2 in the first year class and 2 in the second year class are studying Veena. One student of the first year class is studying an additional practical subject (Violin).

V. Report relating to the Research Students :

The Reader guided the work of the Research students working in the Department and examined the periodical reports submitted by them.

Srimati Alamelu Govindarajan, a former Research student has submitted her Final Report on " Light thrown on the history of Indian Music by Archaeological and Epigraphical Records". She will amplify the same and submit it for her M.Litt Degree.

Srimati S. Seetha has completed her work on " The History of ragas and musical forms of South Indian Music from 1600 A.D." and will be submitting her Report shortly.

Five students are doing research in the following subjects :

1. Ritualistic music of South Indian Temples.
2. Telugu Padakaras.
3. Musical aspect of the Yakshaganas in Telugu.
4. Gamakas (graces) and their growth in Karnatic music and Hindustani music.
5. The Percussion Instruments of India—A Study.

One American Fulbright scholar who was study in the Department left for America in May on the completion of his studies.

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25. DEPARTMENT OF COMMERCE.
(Part-time).

I Staff :

Income-tax Law & Practice :

Professor :

Sri P. D. Swaminadha Mudaliar, B.A.

Lecturer in Law :

Sri C. S. Rama Rao Saheb, B.A., B.L.

Lecturer in Auditing :

Sri B. Bhakthavatsalu Nayudu, B.A., G.D.A., F.C.A.

History and Principles of Co-operation and Co-operative Law :

Sri M. G. Padmanabha Mudaliar, M.A., Deputy Registrar of Co-operative Societies, till 30th June 1954.

Sri M. Madurainayagam, B.A., B.Com., Deputy Registrar of Co-operative Societies from 30th June 1954.

Sri K. V. Sivasankaran, M.A., Deputy Registrar of Co-operative Societies from 1st July 1954.

This report relates to the third year of existence of the Department of Commerce as a separate entity and continues to be in the charge of the Professor of Income-tax Law and Practice.

As before teaching is confined to :

(i) Income-tax Law & Practice ;

(ii) History and Principles of Co-operation and Co-operative Laws ;

to the students of IV and V B.Com.(Hons.) of Loyola and Pachaiyappa's Colleges on an Inter-Collegiate basis.

II. Strength of classes :

College.	IV B.Com. (Hons.) Income-tax Law.	IV B.Com. (Hons.) Co-operation.	V B.Com. (Hons.) Income-tax Law.	V B.Com. (Hons.) Co-operation.
Loyola	6	12	6	12
Pachaiyappa's	6	12	6	12
Post-graduate	1	2	-	1
Total	13	26	12	25

This is the first time when the students of B.Com. (Hons.) with Income-tax Law and Practice as their optionals appeared in their Final Examinations held in March 1954. Their results as well as those with Co-operation as optionals are given below:

Subject.	Post-Graduate. I	II	III	B.Com. (Hons.) I	II	III
Income-tax Law and Practice.	-	-	-	2	7	3
History and Principles of Co-operation & Co-operative Laws.	1	1	-	4	10	7

III. The students with Income-tax Law and Practice are being taught practical lessons in the course of their study in the University itself by the Lecturer in Auditing.

Lectures in Co-operation theory and Law are given as usual in the University premises. But on every Saturday the students are visiting Co-operative Institutions in the City for practical training along with their respective Lecturer (Deputy Registrar of Co-operative Societies).

Besides, the students of V B.Com. (Hons.) were taken during the summer vacation to the Co-operative Institutions in the Districts where the students spent their holidays to study the working of those Institutions. During the Michaelmas Holidays, these students were also taken to Madura for Practical Training. During this visit in consultation with the local Deputy Registrar of Co-operative Societies, the students visited 19 Co-operative Institutions in the Districts including the Madura District Co-operative Bank and Pallwerainpathi Coffee Curing Co-operative Society which are unique Institutions in this State.

The students taking Income-tax Law and Practice as optionals are attending classes on all week days excluding Tuesdays.

The students with co-operation as their optionals are attending classes on Mondays, Wednesdays and Fridays and on Saturdays they visit Co-operative Societies.

The attendance was very regular and the students of both the classes evince great interest in their studies.

APPENDIX E

Madras University Union.

The chief item of the year is the pulling down of the Union Pavilion. Numerous cracks had developed in walls, ceilings and floorings ; during the monsoon time rooms were being flooded and there was imminent danger of some walls collapsing.

The membership of the Union stands at 35.

The grounds are being continually used for Tennis, Athletics and the normal games. Selections for the Madras Teams to compete in all the Inter-University Tournaments are held after trials on the Union Grounds. Practice matches for the selected teams are also held on the Union Grounds.

The University entered as usual for the following Inter-University Tournaments : Hockey, Football, Tennis, Cricket, Volleyball, Basketball, Swimming, Boxing and Athletics. We won the Basketball Trophy, came second in Boxing where we lost by 2 points to Ceylon and were outclassed in all the other Tournaments.

Inter-Divisional Tournaments :—The usual Inter-Divisional Tournaments were held as follows: Hockey at Salem, Football at Tiruchirapalli, Volleyball, Basketball, Cricket and Tennis at Madras. It will be noticed that affiliated Colleges carried-off most of the Trophies as follows:

Basketball—Sacred Heart College, Thevara ; Volley-ball—Government College, Kumbakonam ; Football—Government Brennen College, Tellicherry ; Hockey—St. John's College, Palayamkottai. *Sports*—Madura Division.

The Women's Tournaments were conducted in 3 Divisions. The Inter-Divisional finals were held in Madras.

An attempt was made this year to develop University Teams of Women Competitors. Three Women Competitors were sent for the Inter-University Athletic Meet at Aligarh in which one Madras Competitor, Doreen Williams of Government Brennen College, Tellicherry won the Javelin and Shotput events.

There were two good competitors for Tennis. Unfortunately the Inter-University Tournament could not be held as Madras Women were the only entrants.

Our Test Cricketer Kripal Singh of Loyola College, has not been able to play for the University as he is time barred. R. Krishnan of Loyola College was also unable to play for the University as he was engaged in Tennis Tournaments outside India.

The Rev. L.D. Murphy, S.J.,

Hon. Treasurer and Chairman,
Madras University Union and Madras
University Tournaments and
Sports Committee.

APPENDIX F

National Cadet Corps

(No. 2 Circle)

1. In January 1954, all the Annual Camps for the training year 1953-54, which had commenced in December 1953, were concluded and the Units returned to their Headquarters to commence their training for the rest of the training year till the end of March.

2. On 13th January 1954, a Contingent consisting of 25 Cadets was sent to Delhi to take part in the Republic Day Parade on 26th January 1954. The Contingent did well and returned to Madras on 31st January 1954.

3. On the 6th, 7th and 8th February 1954, a Combined Sports Rally for the Units of both Nos. 2 and 10 Circles was held at Bangalore. 1st Mysore Bn. N.C.C. of No. 10 Circle won the Championship Shield for the second year in succession. But 2nd Madras Bn. N.C.C. was a good second, well on its way in winning future laurels.

4. The training for the year 1953-54 ended in March 1954 and the Units conducted their Companies, Annual Social as a mark of the closing of the training year. Reviewing the training for the whole year, beginning from July 1953, it should be recorded that there was an all-round progress in all the Units.

5. The period of Pre-Commission and Refresher training and the holding of Annual Social Service Camps commenced in April 1954 and extended up to July 1954. 8 N.C.C. Officers were deputed for undergoing refresher training at Kamptee which was specially arranged by the N.C.C. Directorate. This was the first time when such a course was arranged on an All-India basis by the N.C.C. Directorate and it proved a great success. 10 Officers were sent to Madras Regimental Centre for undergoing refresher training.

6. The Second Combined Cadre and Social Service Camp was held from 10th to 30th May 1954 at Pennalurpet, 40 miles from Madras. 800 Cadets and 24 Officers went into Camp with a view to build a tank bund on the slopes of a hill in order to collect the rain water in that area and utilize it for irrigation purposes. The Chief Minister of Madras, Sri K. Kamaraja Nadar inaugurated the work. Approximately 200 acres will come under cultivation if the tank is full and there is a reasonable amount of rainfall in the area. The work involved about 5,20,000 c.ft. of earth work in addition to building veer and the sluice and giving the required shape to the bund itself. The cadets had also dug a channel about 3 miles long for bringing in the overflowing water from a nearby river into another existing tank again for irrigation purpose. The Medical Company went in, though late, for giving medical relief in the neighbouring village during this camp. The hot burning sun did not prevent the cadets from completing the task that was set for them. They carried out the requisite amount of Military Training also in this camp.

7. The camp was held in an ideal setting ; the background was a hill, alongside a river bed. The tent were pitched in a mango grove ; a few villages were located round about the area and they were all the time curiously watching—silently admiring our camp life. At a place where civilization had not penetrated for so many years, electricity was generated by an Indian Air Force Generator and lighting was provided for the entire camp. This was a great boon. Water facilities were more than adequate and there has been no dearth of water at any time. Even telephone was brought into the camp by 5th Madras Signal Section N.C.C. and the efficiency was increased by being able to talk to the outside world from this remote part of the country.

8. Simultaneously with the Social Service Camp, a few Junior Division Units came in for the Refresher Training and it was found to be a great advantage all round.

9. In the end, the Finance Minister Sri C. Subramaniam declared the tank open for irrigation. He concluded : " If this is the enthusiasm and shape of things to be in our country, we are well on the way to prosperity."

10. In May 1954, the Government of India announced increased financial aid to the State Government for raising and running the N.C.C. Units. As a result of this aid, the following new Units had been raised by the State Government during the year :—

(i) Tambaram Indep. Coy. N.C.C.

(ii) Additional Company at Coimbatore (for P.S.G. Arts College and Govt. Arts College).

(iii) 9th Madras E.M.E. Sec. N.C.C., Karaikudi (Alagappa Chettiar's Engineering College of Technology).

(iv) 10th Madras E.M.E. Sec. N.C.C , Coimbatore (P.S.G. & Sons' Charities College of Technology and Government College of Technology).

(v) Girls Division Senior Wing—3 Sub-Troops in Madras (one each in Queen Mary's College, Ethiraj College for Women and Presidency College).

11. Auxiliary Cadet Corps has been introduced this year. A batch of 100 Officers were trained to take over the duties as A.C.C. Instructors in their respective schools. The nucleus has been laid for this great organization and the roots are now taking a firm hold. A simple

uniform in Khaki has been designed for the Auxiliary Cadet Corps, the cost of which is to be met by the cadets themselves. The enthusiasm of the students and the teachers is commendable.

12. As soon as the Colleges and Schools re-opened in July 1954 after the Summer Vacation, the units started enrolling fresh students to fill up the vacancies caused by the outgoing cadets on completion of their training. There was a large number of applications and a rigorous selection was made. During Pooja holidays all the Junior Division Troops under command of 1st Madras Bn. N.C.C., 4th Madras Bn. N.C.C., Annamalai Indep. Coy. N.C.C. and 3rd Madras Air Sqn. N.C.C. held their Annual Camps.

13. In September 1954, Officers were selected for the newly raised Girls Division Unit and they were sent to Delhi for their Pre-Commission training.

14. The Third N.C.C. Day was held on the morning of 5th December 1954. In Madras City, the celebration started at 9 a.m. at the Island Grounds. An impressive parade was held and the Chief Minister of Madras, Sri K. Kamaraj Nadar took the salute. This was followed by an instructive demonstration of the various aspects of the activities of the N.C.C. Units. More than 1,000 Cadets of the Senior and Junior Division Units of all the three wings took part in the function. The day was marked by the presentation of a Trophy by Lt. Col. Paul, the late Commandant of ex-U.O.T.C., to the N.C.C., the successor to U.O.T.C. A similar impressive function was held in all the towns where N.C.C. Units in existence.

15. In December, the Annual Camps of all the Senior Division Units for the year 1954 were held. These camps came to a close in the end of December

1954. This year, the All-India Annual Air Wing Camp was held at Madras.

16. The authorized strength of each Unit is given below :—

Unit	College Allotted	Strength Officers	Strength Cadets
1st Madras Bn. N.C.C., Madras.	Presidency College, Madras Govt. Arts College, Madras Pachaiyappa's College, Madras Loyola College, Madras A.M. Jain College, Madras Theagaraya College, Madras Vivekananda College, Madras New College, Madras	15	625
2nd Madras Bn. N.C.C., Tiruchirapalli.	American College, Madurai Madurai College, Madurai Thyagaraja College, Madurai St. Joseph's College, Tiruchirapalli National College, Tiruchirapalli Jamal Md. College, Tiruchirapalli Govt. Arts College, Kumbakonam.	15	623
4th Madras Bn. N.C.C., Coimbatore.	Govt. Victoria College, Palghat. Govt. Arts College, Mangalore St. Aloysius College, Mangalore Govt. Arts College, Coimbatore P.S.G & Sons Arts College, Coimbatore	12	475
Tambaram (I) Coy., Tambaram.	Madras Christian College, Tambaram.	4	154
6th Madras Med. Coy. N.C.C., Madras.	Madras Medical College, Madras Stanley Medical College, Madras	2	60

Unit	College Allotted	Strength: Officers	Strength: Cadets
3rd Madras Engr. Pl. N.C.C., Guindy.	Govt. Engineering College, Guindy.	2	60
2nd Madras E.M.E. Sec. N.C.C., Guindy.	Govt. Engineering College, Guindy.	2	60
9th Madras E.M.E. Sec. N.C.C., Karaikudi.	Alagappa Chettiar College of Technology, Karaikudi.	2	60
10th (M.) E.M.E. Sec. N.C.C., Coimbatore.	Govt. College of Technology, Coimbatore P.S.G. & Sons Charities College of Technology, Coimbatore	2	120
5th (M.) Battery N.C.C., Madras.	Presidency College, Madras Govt. Arts College, Madras Pachaiyappa's College, Madras Loyola College, Madras A.M. Jain College, Madras Vivekananda College, Madras	2	60
3rd (M.) Air Sqn. N.C.C., Madras.	Presidency College, Madras. Engineering College, Guindy Madras Medical College, Madras A.M. Jain College, Madras Thyagaraya College, Madras Vivekananda College, Madras Stanley Medical College, Madras Madras Christian College, Madras Pachaiyappa's College, Madras Loyola College, Madras Govt. Arts College, Madras	2	95
Girl's Troop Madras (Under 6th (M.) Med. Coy. N.C.C.)	Presidency College, Madras. Queen Mary's College, Madras Ethiraj College for Women Madras	3	90

APPENDIX G

Question Paper-Setters and Examiners for Examinations of 1954.

Question Paper-Setters

ENGLISH.

B.A. (Hons.) and M.A. Degree Examinations.

MEMBERS OF THE BOARD.

1. Prof. C. L. Wrenn, M.A. (*Chairman*).
2. Prof. Peter Alexander.
3. Prof. John Butt, M.A.

Matriculation, Intermediate, B.A.(Pass), B.A. (Hons.) Preliminary, B.Sc. (Pass and Hons.) Part I, B. Com. (Pass and Hons.) Part I and B.O.L. (Pass and Hons.) Part I Examinations.

MEMBERS OF THE BOARD.

1. Sri A. F. Thyagaraju, M.A. (*Chairman*).
2. Sri M. G. Bhatt, M.A., B.Sc. (Econ.)
3. Sri V. K. Gokak, M.A.
4. Sri U. C. Nag, M.A., Ph.D.
5. Sri K. R. Srinivasa Ayyangar, M.A., D.Litt.

MATHEMATICS

B.A. (Hons.) and M.A. Degree Examinations.

MEMBERS OF THE BOARD.

1. Sri R. Vaidyanathaswami, M.A., D.Sc. (*Chairman*).
2. Sri D. P. Banerjee, M.A., D.Sc., F.S.S.
3. Sri A. N. Singh, D.Sc.
4. Sri S. Minakshisundaram, M.A., D.Sc.
5. Sri B. R. Seth, D.Sc.

Matriculation, Intermediate, B.A. and B.Sc. Degree Examinations

MEMBERS OF THE BOARD.

1. Sri N. M. Shah, M.A. (Cantab.) (*Chairman*).
2. Sri B. C. Das, M.A., M.A.S.I.
3. Sri G. R. Narayana Ayyar, M.A., L.T.
4. Sri Ram Behari, M.A., Ph.D., Sc.D., F.N.I.
5. Sri T. S. Venkataraman, M.A.

QUESTION PAPER-SETTERS, NOT MEMBERS OF THE BOARD.

1. Sri K. Nagabhushanam, M.A., Fil Lic., D.Fil.
2. Sri T. K. Rajasekharan, M.A.
3. Sri C. V. Subbarama Ayyar, M.A.

STATISTICS

For all Examinations (B.A. and B.Sc. (Pass and Hons.) Degree)

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5. Sri M. Ramanujachari, B.A., B.L.
6. Sri K. Sreedharan Pandalai, B.A., M.L., LL.M.
7. Sri K. V. Srinivasa Ayyar, B.A., B.L.

MEDICAL EXAMINATIONS.

First M.B. & B.S. and Second M.B. & B.S. Examinations

1. Dr. K. N. Menon, M.Sc., Ph.D., A.I.C., A.I.I.Sc., F.A.Sc.
2. Sri A. C. Joseph, M.A.

3. Dr. Appajee, B.A., M.B., B.S., M.Sc. (Lond.)
4. Dr. B. M. Desai, M.S., F.C.P.S.
5. Dr. K. C. Battliwalla, M.B., B.S., Ph.D.
6. Dr. M. L. Chakrabarty, M.Sc., M.B., Ph.D. (Lond.).
7. Dr. Jal R. Patel, M.D., F.C.P.S.
8. Dr. M. Yousufuddin Ansari, M.B., B.S., L.R.C.P. (Eng.), M.R.C.S., Ph.D. (Lond.).
9. Dr. Y. K. Subramanian, M.B., B.S., D.P.H.
10. Dr. S. E. D. Masilamani, M.B., B.S., B.S.Sc., D.P.H.(Lond).
11. Dr. R. G. Dhayagude, M.D.
12. Dr. P. G. Gollekeri, M.D.

BOARD TO PASS THE QUESTION PAPERS.

1. Dr. R. G. Dhayagude, M.D. (*Chairman*).
2. Dr. B. M. Desai, M.S., F.C.P.S.
3. Dr. K. C. Battliwalla, M.B., B.S., Ph.D.
4. Dr. Jal R. Patel, M.D., F.C.P.S.
5. Dr. Y. K. Subramanian, M.B, B.S., Ph.D.

Final M.B., B.S. Degree Examination.

1. Dr. D. Jagannadha Reddy, M.D.
2. Dr. I. Bhooshana Rao, M.B., B.S., M.D.
3. Dr. S. N. Gantayat, M.B. & B.S., D.O. (Oxon.)
4. Dr. B. K. Das Gupta, M.B., L.R.C.P. (Lond.), D.O., M.S. (Lond.), F.R.C.S. (Edin.)
5. Dr. B. B. Yodh, M.R.C.P. (Lond.), D.T.M. & H. (Eng.)
6. Dr. A. B. Mukher jee, M.D., M.R.C.P.
7. Dr. G. S. Das Mahapatra, M.B., M.S., F.R.C.S. (Edin.)
8. Dr. P. Chatterjee, M.B., F.R.C.S.
9. Dr. (Sry.) J. Dei, M.B., B.S., M.R.C.O.G.
10. Dr. M. N. Sarkar, B.A., M.B., B.S., F.R.C.S., F.R.C.O.G.

BOARD TO PASS THE QUESTION PAPERS.

1. Dr. A. B. Mukherji, M.D., M.R.C.P. (Lond.) (*Chairman*).
2. Dr. S. N. Gantayat, M.B., B.S., D.O.
3. Dr. D. Jagannadha Reddy, M.D., F.C.P.S.
4. Dr. P. Chatterji, M.D., F.R.C.S.
5. Dr. M. N. Sarkar, B.A., M.B., B.S, F.R.C.S., F.R.C.O.G.

M.D. Degree Examination.

(For setting and valuation).

1. *Branch I—(Medicine).*
   1. Dr. A. B. Mukherjee, M.D., M.R.C.P. *(Convener).*
   2. Dr. J. C. Banerjea, M.B., M.R.C.S.
   3. Dr. P. N. Laha, M.D., M.R.C.P., D.C.H.
   4. Dr. N. E. Lilauwala, M.R.C.P., F.R.C.P.

2. *Branch II—Midwifery (Also for setting for D.G.O.)*
   1. Dr. Subodh Mitra, M.B., Dr. Med., F.R.C.S., F.R.C.O G. F.A.C.S. *(Conv ener).*
   2. Dr. A. C. Bhoumik, M.B., M.R.C.O.G.
   3. Dr. (Miss) A. D. Engineer, M. D., M. R. C. O. G., F.R.C.S.
   4. Dr. R. G. Patel, M.D., D.G.O., M.R.C.O.G.

3. *Branch III—(Pathology and Bacteriology)*
   1. Dr. P. N. Wahi, M.D., M.R.C.P. *(Convener).*
   2. Dr. Y. M. Bhende, M.D.
   3. Dr. V. S. Mangalik, M.D.
   4. Dr. R. K. Goyal, D.Sc., Ph.D., M.R.C.P., F.R.S.E.

M.S. Degree Examination (For setting and valuation).

1. *Branch I—(General Surgery).*
   1. Dr. A. K. Basu, M.S., F.R.C.S., F.I.C.S. *(Convener).*
   2. Dr. S. K. Menon, M.B., B.S., F.R.C.S.
   3. Dr. B. N. Balakrishna Rao, B.Sc., M.B., B.S., F.A.Sc., F.I.C.S
   4. Dr. A. K. Saha, M.B., F.R.C.S., M.Ch. (Orth.)

2. *Branch II—(Ophthalmology) (Also for setting for D.O.)*
   1. Dr. K. N. Mathur, M.B., B.S., D.O.M.S. *(Convener).*
   2. Dr. S. P. Gupta, F.R.C.S., D.O.M.S. (Lond.).

3. *Branch II—(Oto-Rhino-Laryngology) (Also for setting D.L.O.).*
   1. Dr. S. G. Joshi. M.S. *(Convener).*
   2. Dr. R. A. F. Cooper, M.S. *(For April only).*
   3. Dr. Joe V. De Sa, M.S., D.L.O. *(For setting question paper for D.L.O.*—October only).

First B.D.S. Examination.

1. Dr. D. V. Subba Reddy, M.B., B.S., M.Sc. (*Chairman*).
2. Dr. K. Govinda Menon, B.A., M.B., B.S., M.Sc.
3. Dr. M. G. Rao, L.D.Sc., P.G.R.P., F.A.I.D.

B. Pharm. Preliminary Examination.

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B. Pharm. Final Examination.

(*New Regulations*)

PART I.

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9. Miss L Rangacharlu, M.Sc.
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B.Sc. Degree Examination in Nursing.

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B.E. Degree Examination.

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3. Sri A. Lakshmanaswami, B.E., L.E., A.M.I.E.
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10. Sri M.K. Dalal, B.Sc. (Eng.), A.M.I.E.E., A.M.I.C. (Assoc.) A.I.E.E.
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13. Sri V. V. L. Rao, B.E., D.I.C. (Lond.), S.M.I.R.E., Dip M.S.W.C.

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14. Sri K. K. Nambiar, B.E., M.I.E. (Ind.), F.Inst. H.E.(Lond.) M.I.Mun. E., M. Am. Soc. C.E., M.R.San. I.
15. Sri K. Ramaswami Reddiar, B.E., A.M. Am. Soc. C.E.

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9. Sri L. V. Gurjar, M.A.
10. Sri C. V. Joga Rao, B.Sc. (Eng.), D.I.I.Sc., M.S. (Stan.), Ae.E. (Caltech.).
11. Sri Y. G. Krishnaswamy, M.Sc.
12. Sri M. Meeran, B.E., M.I.Struct.E., A.M.I.E., A.M. Am. Soc. C.E.
13. Sri K. Padmanabha Pillai, B.E., C.E. (Hons.), M.I.E. (Ind.)
14. Sri C. Rajagopalan, M.Sc.
15. Sri C. Rajaram, B.A., B.E.
16. Sri K. Ramanujacharya, M.A., B.Ed.
17. Sri M. V. Rama Rao, B.Sc. (Hons.), A.I.I.Sc., A.M.I.E. (Lond.), A.M.I.E. (Ind.).
18. Sri M. Sen Gupta, B.Sc. (Eng.)(Hons.) (Glas.), C.P.E. (Glas.), M.I.E.E. (Lond.), M.I.E. (Ind.), M.I. Mech.E. (Lond.), F.I.P.S. (Ind.).
19. Sri V. Somasundaram, M.A.
20. Sri G. V. Spare, B.E., A.M.I.E.
21. Sri V. Subramanian, B.E., A.M.I. Struct.E., A.M.I.C.E.
22. Sri P. Venkataramana Raju, B.E., C.E. (Hons.), M.I.E.

AGRICULTURE.

B.Sc. (Ag.) Degree Examination.

QUESTION PAPER-SETTERS.

First Examination.

1. Sri P. A. Venkateswara Ayyar, B.A., B.Sc. (Ag.).
2. Sri H. C. Govindu, M.Sc.
3. Dr. P. Satyanarayana, B.Sc.,(Ag.), M.Sc., Ph.D., F.R.I.C.
4. Sri C. S. Balasubrahmanyam, B.Sc. (Ag.).
5. Sri N. Sankaranarayana Reddy, B.E.

Second Examination.

6. Sri R. Suryanarayana Rao, B.Sc. (Ag.).
7. Sri T. Natarajan, B.A., B.Sc. (Ag.).
8. Sri B. M. Lakshmipathy Mudaliar, B.E., M.E., M.R.A.S.E.
9. Sri B. Krishnamurti, B.Sc., F.R.S.C.
10. Sri K. S. Nair, M.R.C.V.S., D.T.V.M. (Edin.).

Final Examination.

11. Sri Amir Ali, B.Sc. (Ag.), Ph.D.
12. Sri M. C. Rangaswami, N.D.D., I.D.D.
13. Sri T. V. Reddy, B.Sc. (Ag.), M.Sc.
14. Sri B. Appala Naidu, M.A., M.Sc., F.B.S.
15. Sri M. R. Balakrishnan, B.A , B.Sc. (Ag.).
16. Sri T. M. Vittal Rao, B.Sc. (Hons.), Ph.D.

BOARD TO PASS THE QUESTION PAPERS.

1. Sri B. M. Lakshmipathy Mudaliar, B.E., M.E., M.R A.S.E. (*Chairman*).
2. Sri P. Satyanarayana, B.Sc. (Ag.), M.Sc., Ph.D., F.R.I.C.
3. Sri B. Appala Naidu, M.A., M.Sc.
4. Sri R. Suryanarayana Rao, B.Sc. (Ag.).

COMMERCE.

B.Com. (Hons.) Degree Examination.

MEMBERS OF THE BOARD.

1. Sri S. K. Muranjan, M.A., B.Sc., D.Sc.(Econ.) (*Chairman*)
2. Sri A. Gopala Menon, M.A., B.Com.
3. Sri B. S. Baindoor, B.Com.
4. Sri A. V. Deshpande, F.S.A.A., F.C.A.
5. Sri R. H. Pandia, B.A., LL.B.
6. Sri A. K. S. Ayyar, B.Com., G.D.A. F.S.A.A. F.C.A., F.I.C.W.A.
7. Sri K. C. Sarkar, M.A., Ph.D.
8. Sri P. D. Swaminatha Mudaliar, B.A.
9. Sri C. Rama Rao Sahib B.A., B.L.

B. Com. (Pass) Degree Examination.

PART III.

(Also for Precis-Writing and Business Correspondence for B.Com. (Hons.) Part I and for Intermediate Examination—Elements of Commerce & Accountancy and Economic History of England & Economic Geography.)

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2. Sri G. M. Dandekar, B.A., F.S.A.A., F.C.A.

3. Sri H. K. Datta, M.A., B.Com.
4. Sri G. G. Gadgil.
5. Sri V. Krishnan, B.A. (Hons.), Ph.D., Dip. Econ., Dip. Geog., C.A.I.I.B.
6. Sri B. R. Subba Rao, M.A., Dip.Com.
7. Sri K. Venkoba Rao, B.A., M.L.

TECHNOLOGY.

B.Sc. (Tech.) Parts I and II Examination.

I. Common papers and Chemical Engineering.

1. Sri D. S. Agashe, M.A. (Cantab.).
2. Sri A. M. Desai, M.S.E., Ph.D. (U.S.A.).
3. Sri E. R. Dhongde, B.A., B.Com. (Lond.).
4. Mrs. Ellen Sharma, M.A., M.Ed.
5. Sri M. V. Joshi, B.E. (Tech.), B.Sc. (Tech.).
6. Sri C. Mahadevan, M.A., D.Sc., F.A.Sc., F.N.I.
7. Sri P. S. Mene, Ph.D. (Lond.), D.I.C., M.I.I.Chem.E.
8. Sri S. K. Nandi, M.Sc., A.R.T.C. (Glas.), M.I.I.Chem.E.
9. Sri M. U. Pai, M.Sc.(Tech.), Ph.D.
10. Sri S. A. Saletore, B.Sc., A.I.I.Sc., Ph.D., M.I.I.Chem.E.
11. Sri G. S. Tendolkar, B.Sc. (Tech.), Ph.D.

PAPER-SETTERS WHO PASSED THE QUESTION PAPERS.

1. Sri A. M. Desai, M.S.E., Ph.D.
2. Sri M. U. Pai, M.Sc. (Tech.), Ph.D.
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MEMBERS OF THE BOARD.

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VETERINARY SCIENCE.

B.V.Sc. Preliminary Examination.

MEMBERS OF THE BOARD.

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B.V.Sc. Intermediate Examination.

PART I.

1. Major C. V. G. Chowdhary, B.Sc., M.R.C.V.S.
2. Sri J. M. Lahiri, M.R.C.V.S., D.T.V.M.
3. Sri D. N. Mullick, M.Sc., Ph.D.
4. Sri S. N. Ray, M.Sc., Ph.D.
5. Sri K. S. Nair, M.R.C.V.S., D.T.V.M. (Edin.).
6. Major T. Murari, B.Sc. (Hons.), F.L.S., F.R.S.A.
7. Sri P.M. Narayanaswami Naidu, B.Sc., L.V.P., Sc.D.,F.F.A.S.
8. Sri C. T. Peter, B.Sc., G.M.V.C., B.V.Sc., M.Sc.

BOARD TO PASS THE QUESTION PAPERS.

1. Sri K. S. Nair, M.R.C.V.S., D.T.V.M. (Eidn.) (*Chairman*)
2. Major T. Murari, B.Sc. (Hons.), F.L.S., F.R.S.A.

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1. Sri M. Y. Mangrulkar, M.Sc., M.R.C.V.S.(Edin.), D.T.V.M.
2. Sri P.R. Krishna Ayyar, G.M.V.C.
3. Sri J. C. David, M.B., B.S., Ph.D.
4. Sri V. Srinivasan, B.A., G.M.V.C.
5. Sri N. D. Kehar, M.Sc., Sc.D.
6. Sri K. C. Sen, D.Sc., F.N.I.
7. Sri K. P. Basu, Ph.D., D.Sc., F.N.I.

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1. Sri K. S. Nair, M.R.C.V.S., D.T.V.M. (Edin.) (*Chairman*)
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3. Sri K. P. Basu, Ph.D., D.Sc., F.N.I.

B.V.Sc. Final Examination.

1. Sri V. Srinivasan, B.A., G.M.V.C., Dip. Econ.
2. Sri Bertie A. D'Souza, G.M.V.C., B.V.Sc.
3. Sri S. R. Chadha, B.Sc., M.R.C.V.S.
4. Major Habib Khan, M.R.C.V.S.
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6. Sri P. Bhattacharya, M.Sc., Ph.D. (Edin.).
7. Sri S. A. Jabbar, G.B.V.C., I.D.D., M.Sc. (Cornel, U.S.A.)
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3. Sri S. E. D. Masilamani, M.B.B.S., B.S.Sc., D.P.H. (Lond.)

M.Sc. BY EXAMINATION, MAY, 1954.

(To set question papers and to conduct the Examination).

I. Mathematics—Theory of Structures.

MEMBERS OF THE BOARD.

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Examiners.

ENGLISH

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4. Sri Samuel Mathai, M.A. (Oxon.).

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2. Sri G. Varadachari, M.A.

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2. Sri N. T. Madhavan Nambiar, M.A.
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72. Sri A. Swamidoss, B.A. (For March only)
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Intermediate Examination.

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STATISTICS

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B.Sc. (Honours) Degree Examination.

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8. Sri D. Satyanarayana, M.A., L.T.

9. Sri M. A. Subramaniam, B.Sc. (Hons.).
10. Sri P. S. Varadachari, M.A., M.Sc.
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12. Sri Syed Yakub, M.A., L.T.

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5. Sri K. S Krishnamurthy, B.Sc. (Hons.).
6. Sri R. Krishnan, M.A. (For March only).
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ELEMENTARY SCIENCE

Matriculation Examination.

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B.A. and B.Sc. Degree Examination.

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B.Sc. (Pass) Degree Examination.

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PHYSIOLOGY

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6. Sri K. E. Thomas, B.A., M.B., B.S.

NUTRITION.

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PHILOSOPHY AND LOGIC

B.A. Degree and Intermediate Examinations.

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M.L. Degree Examination

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Diploma is Oto-Rhino Laryngology Examination.

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Diploma in Venereology Examination.

(To set question papers and to conduct the Examination)

1. Dr. R. V. Rajam, M.S., F.R.C.S.(Edin.) (*Chairman*).
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First B.D.S. Examination

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B. Pharm. Preliminary Examination

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B. Pharm. Final Part I Examination

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B. Pharm. Final Part II Examination

MEMBERS OF THE BOARD :

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3. Sri S. Ramamurthi, B.Sc., B.Sc. (Pharm.).
4. Dr. S. Rangaswami, M.A., Ph.D., D.Phil.
5. Miss E. M. James, B. Pharm. (Lond.), B.Sc. (Lond.), Ph.D., M.P.S.

B.S.Sc. Part I Examination

MEMBERS OF THE BOARD :

There was no examination in 1954 as there were no candidates for B.S.Sc. Part I.

B.S.Sc. Part II Examination

BOARD OF EXAMINERS :

1. Dr. Isaac Joseph, L.M. & S., B.S.Sc. (*Chairman*).
2. Dr. M. K. Jacob, M.B.B S., D.P.H.
3. Dr. T. S. Adisubramaniam, M.B.B.S , B.S.Sc., D.I.H. (Eng.).
4. Dr. N. Parthasarathy, L.M. & S., B.S.Sc.
5. Dr. T. R. Rangaswami, M.B.B.S, B.S.Sc.
6. Dr. S. E. D. Masilamani, M.B.B.S., B.S.Sc., D.P.H. (Lond.).

INTERMEDIATE EXAMINATION IN SCIENCE IN NURSING

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4. Sri S. Jesuratnam, B.A., B.Sc.
5. The Rev. John H. Piet, B.A., B.D., S.T.M., Ph.D.
6. Dr. (Miss) L. Chacko, M.B.B.S., M.Sc., D.Phil.
7. Dr. (Miss) D. M. Jefferson, M.D., M.Sc.
8. Mrs. P. A. Bhanumathi, M.A.
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B.Sc. Degree Examination in Nursing

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3. Miss Helen Benjamin, B.A.
4. Sri M. J. Sudarsanam, M.A.
5. Miss Annamma Mathews, R.N., R.M., B.Sc. (Nursing).
6. Miss Florence Taylor, R.N., M.Sc.
7. Miss Soma Perera.
8. Sry. A. Alamelu Ammal.

ENGINEERING EXAMINATIONS

(TO CONDUCT EXAMINATIONS).

I and II B.E. Examinations

MEMBERS OF THE BOARD :

1. Major B. H. Marley, B.E., A.M.I.E. (*Chairman*).
2. Sri R. Natesan, B.E.
3. Sri G. S. Ramaswami, B.E., M.S., C.E.
4. Sri K. S. Bikshandeswaran, B.Sc. (Hons.).

OTHER EXAMINERS, NOT MEMBERS OF THE BOARD :

1. Sri J. G. Abraham, B.E., M.I.E. (Ind.), M.Am.Soc. C.E.
2. Sri P.V. Abdur Rahiman, M.A., Ph.D.
3. Sri R. P. Arthur, B.E., M.S.
4. Sri P.E. John, B.E.
5. Sri B. M. Lakshmipathi Mudaliar, B.E , M.E., M.R.A.S.E.
6. Sri P. S. Manisundaram, B.A., B.E.
7. Sri R. Ramaswami Reddy, B.A. (Hons.).
8. Sri A. T. B. Saravanaswami, B.A. (Hons.)
9. Sri T. Murugaiyan, M.A.
10. Sri L. G. Subbaraman, B.Sc. (Hons.).

Third and Final B.E. Degree Examinations

MEMBERS OF THE BOARD :

1. Lt.-Col. S. Paul, B.E., M.I.E. (Ind.) (*Chairman*).
2. Sri J. I. Koil Pillai, B.E.
3. Sri M. Meeran, B.E.
4. Sri S. Subramanian, B.E.

5. Sri K. V. Thadaney, B.E., A.M.I.E.
6. Sri S. Ananthakrishnan, B.A., B.E., A.M.I.E.
7. Sri F. J. Vedamanikkam, B.A., B.E., M.I.E. (Ind.), Mem. A.S.M.E.
8. Sri S. P. Vores, B.E.
9. Sri A. R. Narayana Rao, B.E.
10. Sri S. Srinivasan, B.E., M.Sc., M.S.E.E. (Ind.), A.A.I.E.E.
11. Sri K. Sukumaran, B.E., Ph.D., M.I.E (Ind.).
12. Richard Filipowsky, Esq., S.M.I.R.E., M.B.I.R.E., A.M.I.R.E.
13. Sri A. K. Ghose, M.Sc.
14. Sri Ganti Subramaniam, B.E., M.A. (Eng.), M.I.R.E., M.N.G.S.
15. Sri V. H. Sadarangani, B.E., B.Sc., M.I.E. (Ind.).
16. Sri K. Ramaswami Reddi, B.E., A.M.Am.Soc. C.E., M.I.H.E.
17. Sri T. S. Venkataramanan, B.A., B.E., A.M.I.E., M.I.H.E.

OTHER EXAMINERS, NOT MEMBERS OF THE BOARD :

1. Sri G. Alexander, B.Sc., B.E., A.M.I.E., M.I.S.E.
2. Sri S. L. Balasubramanyam, B.E., M.S.
3. Sri R. C. Bhandari, B.Sc. (Tech.) (Manch.), B.Sc. (Hons.) (Ph.), A.M.C.T., A.M.I.E. (Ind.), A.M.I.E.E. (Lond).
4. Sri D. K. Nambudripad, B.Sc., A.M.I.E.E. (Ind.), Assoc. Mem. A.I.E.E.
5. Sri P. Dorai Babu, B.Sc. (Hons.).
6. Sri A. P. Jambulingam, B.E., M.S. (U.S.A.).
7. Sri Mir Shabar Hussain, M.A., B.T.
8. Sri G. A. Narasimha Rao, B.E.
9. Sri C. Rajaram, B.A., B.E.
10. Sri K. Raghavendran, B.Sc. (Hons.).
11. Sri K. B. Subbayya, B.E.

AGRICULTURE

B.Sc. (Ag.) Degree Examination

First Examination.

MEMBERS OF THE BOARD :

1. Sri M. R. Balakrishnan, B.A., B.Sc. (Ag.) (*Chairman*).
2. Sri P. A. Venkateswaran, B.A., B.Sc. (Ag.).
3. Sri T. Venkataramana Reddy, B.Sc. (Ag.), M.Sc.
4. Sri C. S. Balasubramaniam, B.A.
5. Sri N. Sankaranarayana Reddy, B.E.

Second and Final Examination.

MEMBERS OF THE BOARD :

1. Sri B. M. Lakshmipathy Mudaliar, B.E., M.E., M.R.A.S.E. (*Chairman*).
2. Sri R. Suryanarayana Rao, B.Sc. (Ag.).
3. Sri T. Natarajan, B.A., B.Sc. (Ag.).
4. Sri E. R. Gopala Menon, B.A. (Hons.).
5. Sri J. D. David, G.M.V.C., P.G. (Edin.).
6. Sri Amir Ali, B.Sc. (Ag.), Ph.D.
7. Sri M. C. Rengaswami, N.D.D., I.D.D.
8. Sri H. C. Govindu, M.Sc.
9. Sri B. Appala Naidu, M.A., M.Sc.
10. Sri P. Satyanarayana, B.Sc. (Ag.), M. Sc., Ph.D., F.A.I.C.
11. Sri T. M. Vittal Rao, B.Sc. (Hons.), Ph.D.

B.V.Sc. Preliminary Examination (New Regulations)

MEMBERS OF THE BOARD :

1. Sri C. Krishna Rao, G.M.V.C , B.V.Sc., M.S. (*Chairman*).
2. Sri G. Gopal Rao, D.Sc., A.R.I.C.
3. Sri B. Naganna, B.Sc., M.Sc., A.R.I.C.
4. Mrs. K. Harris, M.A.
5. Sri T. M. Paul, M.Sc., Ph.D. (For April only).
6. Sri P. K. Menon, M.A., L.T. (For October only).
7. Sri P. M. Thillanayagam, G.M.V.C.

B.V.Sc. Intermediate Examination Part I

MEMBERS OF THE BOARD :

1. Sri K. N. Govindan Nair, G.M.V.C. (*Chairman*).
2. Sri C. V. Kannan, B.Sc., G.B.V.C.
3. Sri P. Srinivasan, B.V.Sc., M.Sc.
4. Sri V. D. Sedekar, B.Sc., B.V.Sc.
5. Sri G. Venkatachalam, M.S., Ph.D.
6. Sri G. Pandurang, G.M.V.C., B.V.Sc., M.S., D.V.P.H.
7. Sri M. Anantaraman, M.A., M.Sc., F.Z.S.
8. Sri P. M. Narayanaswami Naidu, B.Sc., D.Sc., L.V.P., F.F.A.S. (For April only).
9. Sri N. S. Krishna Rao, B.A., L.V.P., Ph.D. (For October only)

B.V.Sc. Intermediate Examination

Part II (New Regulations)

1. Sri I. M. Azizuddin, B.A., B.V.Sc., Ph.D. (Edin.) (*Chairman*) (For April only).
2. Sri K. P. Chandrasekharan Nair, G.M.V.C., B.V.Sc. (For October only).
3. Sri D. Govinda Reddy, M.D.
4. Sri V. Iswariah, B.A., M.B.B.S, M.R.C.P. (Edin.), F.R.F.P.S.
5. Sri K. S. Nair, D.T.V.M., V.S., G.B.V.C., P.G.
6. Sri Bashir Ahmed Shirazi, B.V.Sc.
7. Sri V. Mahadevan, M.A., D.Sc., F.R.I.C. (*Chairman* for October).
8. Sri Zal R. Kothavalla, B.Ag., B.Sc. (Ag.), Ph.D.
9. Sri C. P. Ananthakrishnan, M.Sc., Ph.D.

B.V.Sc. Final Examination (New Regulations)

MEMBERS OF THE BOARD :

1. Sri R. Swaminatha Ayyar, B.A., G.M.V.C., (*Chairman*) (For June only),
2. Sri Bertie A. D'Souza, G.M.V.C., B.V.Sc., P.G. (Edin.).
3. Sri M. S. Ganapathy, G.M.V.C., B.V.Sc.
4. Sri C. V. G. Choudary, B.Sc., M.R.C.V.S.
5. Sri M. Habib Khan, M.R.C.V.S. (Lond.) (*Chairman*) (For December only).
6. Sri M. Dharmarajan, M.A., M.Sc., Ph.D.
7. Sri I. D. Mantramurti, G.M.V.C., B.V.Sc.
8. Sri S. A. Jabbar, G.M.V.C., I.D.D., M.Sc. (Cornell). (For December only).
9. Sri S.E.D. Masilamani, M.B.B.S., B.S.Sc., D.P.H.

B.Sc. (Tech.) Part I Examination

CHEMICAL ENGINEERING, TEXTILE AND LEATHER TECHNOLOGY

MEMBERS OF THE BOARD :

1. Dr. G. S. Laddha, B.Sc., B.Sc. (Tech.), M.S. (Chem.) (Eng.), Ph.D. (Purdue) (*Chairman*).
2. Mrs. Ellen Sharma, M.A. M.Ed.
3. Sri P. S. Mene, Ph.D. (Lond.), D.I.C., M.I.I. Chem.E.

4. Sri P. Dorai Babu, B.Sc. (Hons.)
5. Sri R. Natesan, B.E.
6. Sri K. Sukumaran, B.E., Ph.D.
7. Sri S. M. Shah, B.Sc., B.Sc. (Tech.), Ph.D.
8. Capt. P.S. Chowdary, Dip. in Leather Tech. (Lond.).

CHEMICAL ENGINEERING

B.Sc. (Tech.) Part II Examination

MEMBERS OF THE BOARD :

1. Sri G. S. Laddha, B.Sc., B.Sc. (Tech.), M.S. (Chem. Engg.) Ph.D. (Purdue) (*Chairman*).
2. Sri C. W. B. Zacharias, M.A., L.T.
3. Sri M. V. Joshi, B.E., B.Sc. (Tech.) (Manch.).
4. Sri P. S. Mene, Ph.D., D.I.C., M.I.I.Chem. E.
5. Sri T. N. Mehta, B.A., B.Sc., D.I.C., Ph.D. (Lond.).
6. Sri B.D. Tilak, B.Sc., B.Sc. (Tech.), Ph.D., D.Phil.

B.Sc. (Tech.) Degree Examination

TEXTILE TECHNOLOGY

MEMBERS OF THE BOARD :

1. Sri G. M. Nabar, B.A., M.Sc , M.Sc. (Tech.), Ph.D. (*Chairman*).
2. Sri R. G. Ghandorkar, B.Sc. (Bom.), L.T.M., M.Sc. (Tech.) (Manch.).
3. Sri C. E. Krishnamurti, B.A., T.D.
4. Sri M. R. Krishnamurthy, B.Sc. B.Sc. (Tech.) (Manch.)
5. Sri D. Subbarayudu, L.T.M. (Hons.).

B.Sc. (Tech.) Degree Examination

LEATHER TECHNOLOGY PART II

MEMBERS OF THE BOARD :

There was no examination in 1954 as there were no candidates for B.Sc. (Tech.) Part II—Leather Technology.

APPENDIX H.

Tabular Statement of Hostel Return from Constituent and Affiliated Colleges,

1954–55

No.	Name of College.	Total number of students in the college for 1954-55.	Students living with relatives or guardians.	Students living in hostels attached to the college.	Students living in unattached hostels approved by the college authorities.	Students living in lodgings approved by the college authorities.	Students not accounted for under the preceding four heads.
	Arts and Science Colleges						
	Constituent Colleges.						
1	Agurchand Manmull Jain College, Madras.	501	449	50	2	..	..
2	Government Arts College, Madras ..	1,272	1,009	214	31	5	13
3	Loyola College, Madras ..	1,929	1,155	750	24	..	..
4	Pachaiyappa's College, Madras ..	2,144	1,474	550	84	36	..
5	Presidency College, Madras ..	1,320	910	86	300	24	..
6	Sir Theagaraya College, Madras ..	736	632	104	..	..	..

7	Vivekananda College, Madras ..	1,473	1,200	174	70	29	..
8	Ethiraj College for Women, Madras ..	554	475	71	..	..	8
9	Queen Mary's College, Madras ..	717	523	194	..	..	..
10	Stella Maris College, Madras ..	699	551	148	..	..	..
11	Women's Christian College, Madras ..	344	150	193	1	..	..
12	The New College, Madras ..	478	425	46	6	1	..
	Affiliated First Grade Colleges.						
13	Government Arts College, Coimbatore.	982	816	97	37	11	21
14	St. Albert's College, Ernakulam ..	882	784	86	..	..	12
15	St. Teresa's College, Ernakulam ..	538	244	228	66	..	..
16	Farook College, Feroke ..	564	102	213	159	90	..
17	Alagappa College, Karaikudi ..	1,157	456	488	..	213	..
18	Guruvayurappan College, Kozhikode.	635	538	90	7	..	..
19	Providence Women's College, Kozhikode. ...	180	107	73	..	..	..
20	Government College, Kumbakonam ..	1,023	871	117	35	..	..
21	The American College, Madurai ..	1,092	514	558	..	..	20

Tabular Statement of Hostel Returns from Constituent and Affiliated Colleges, 1954–55—(contd.)

No.	Name of College.	Total number of students in the college for 1954-55.	Students living with relatives or guardians.	Students living in hostels attached to the college.	Students living in unattached hostels approved by the college authorities.	Students living in lodgings approved by the college authorities.	Students not accounted for under the preceding four heads.
22	Madura College, Madurai ..	1,285	963	322	..	..	..
23	Lady Doak College, Madurai ..	306	136	170	..	..	..
24	Thiagarajar College, Madurai ..	648	298	343	1	6	..
25	Government Arts College, Mangalore.	715	474	40	145	16	40
26	St. Aloysius' College, Mangalore ..	1,121	678	313	111	19	..
27	St. Agnes College, Mangalore ..	331	220	103	8	..	..
28	Government College, Mercara ..	303	190	42	21	41	9
29	Sarah Tucker College, Palayamkottai.	215	82	133	..	..	..
30	St. John's College, Palayamkottai ..	722	314	363	..	45	..
31	St. Xavier's College, Palayamkottai ..	880	251	610	19	..	..
32	Government Victoria College, Palghat.	1,464	888	444	6	126	..

33	Raja's College, Pudukottai ..	536	200	90	..	..	246
34	Salem Municipal College, Salem ..	889	837	21	27	4	..
35	Rajah Doraisingam Memorial College, Sivaganga.	478	242	236	..	..	..
36	Madras Christian College, Tambaram.	1,226	471	647	6	102	..
37	Government Brennen College, Tellicherry.	658	609	39	10	..	..
38	Sacred Heart College, Thevara ..	1,162	430	540	..	148	44
39	Holy Cross College, Tiruchirappalli ..	566	237	329	..	..	..
40	Jamal Mohamed College, Tiruchirapalli.	981	709	232	..	40	..
41	National College, Tiruchirapalli ..	1,144	755	224	94	71	..
42	St. Joseph's College, Tiruchirapalli ..	1,914	786	1,093	26	9	..
43	The M.D.T. Hindu College, Tirunelveli.	748	713	..	35	..	..
44	Sacred Heart College, Tirupattur ..	167	75	57	..	17	18
45	Sree Kerala Varma College, Trichur ..	958	603	32	..	323	..
46	St. Mary's College, Trichur ..	636	406	170	60	..	..

Tabular Statement of Hostel Returns from Constituent and Affiliated Colleges, 1954-55—(contd.)

No.	Name of College.	Total number of students in the college for 1954-55.	Students living with relatives or guardians.	Students living in hostels attached to the college.	Students living in unattached hostels approved by the college authorities.	Students living in lodgings approved by the college authorities.	Students not accounted for under the preceding four heads.
47	St. Thomas' College, Trichur ..	1,041	756	210	30	45	..
48	St. Mary's College, Tuticorin ..	142	59	83	..	..	..
49	V.O. Chidambaram College, Tuticorin.	654	460	159	..	35	..
50	Mahatma Gandhi Memorial College, Udipi.	532	347	34	30	53	68
51	Islamiah College, Vaniyambadi ..	420	254	151	..	15	..
52	V.H.N. Senthikumara Nadar College, Virudhunagar.	799	232	427	..	..	140
	Affiliated Second Grade Colleges.						
53	Veerasaiva College, Bellary ..	149	99	6	34	..	6
54	P.S.G. Arts College, Peelamedu (Coimbatore).	595	355	210	30	..	..

55	Nirmala College for Women, Coimbatore.	249	30	35	..	..	184
56	Mahajana College, Erode ..	155	118	24	2	..	11
57	Pachaiyappa's College, Kancheepuram.	448	298	109	..	41	..
58	Alagappa College for Women, Karaikudi.	30	24	6	..	..	..
59	Auxilium College, Katpadi ..	65	..	40	..	..	25
60	Malabar Christian College, Kozhikode.	303	259	41	3	..	..
61	Fatima College, Madurai ..	161	113	47	..	1	..
62	Sitalakshmi Ramaswami College, Tiruchirapalli.	117	74	43	..	..	..
63	G.V.G. Visalakshi College for Women, Udamalpet.	73	21	52	..	..	..
64	Voorhees College, Vellore ..	514	426	52	14	22	..
	Professional Colleges.						
1	Madras Law College, Madras ..	1,288	925	..	363	..	..
2	Madras Medical College, Madras ..	951	260	443	248	..	..
3	Stanley Medical College, Madras ..	720	221	499	..	..	..

Tabular Statement of Hostel Returns from Constituent and Affiliated Colleges, 1954-55—(contd.)

No.	Name of College.	Total number of students in the college for 1954-55.	Students living with relatives or guardians.	Students living in hostels attached to the college.	Students living in unattached hostels approved by the college authorities.	Students living in lodgings approved by the college authorities.	Students not accounted for under the preceding four heads.
4	Madurai Medical College, Madurai ..	50	14	36	..	..	..
5	Christian Medical College, Vellore ..	239	..	239	..	..	..
6	College of Engineering, Guindy, Madras.	543	200	343	..	..	..
7	Government College of Technology, Coimbatore.	285	34	251	..	..	..
8	P.S.G. & Son's Charities College of Technology, Coimbatore.	356	109	147	100	..	..
9	Alagappa Chettiar College of Engineering & Technology, Karaikudi.	252	23	229	..	..	..
10	Madras Veterinary College, Madras ..	326	92	222	7	..	5
11	Agricultural College, Coimbatore ..	281	35	246	..	..	..

12	Lady Willingdon Training College, Madras.	108	57	49	2	..	..
13	Meston Training College, Madras ..	83	18	60	5	..	..
14	St. Christopher's Training College, Madras.	60	13	47	..	..	..
15	Teachers' College, Saidapet, Madras.	146	74	72	..	..	..
16	Sri Ramakrishna Mission Vidyalaya Teachers' Training College, Perianaickenpalayam, Coimbatore.	59	..	59	..	..	..
17	Dr. Alagappa Chettiar Training College, Karaikudi.	74	31	35	..	8	..
18	Government Training College, Kozhikode.	100	53	47	..	..	..
19	Government Training College, Mangalore.	64	31	23	8	2	..
20	St. Ann's Training College, Mangalore.	28	20	8	..	..	..
21	St. Xavier's Training College, Palayamkottai.	40	18	22	..	..	..
22	Y.M.C.A. College of Physical Education, Saidapet, Madras.	48	..	48	..	..	..
	Grand Total ..	51,821	31,105	15,977	2,267	1,599	870